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AMERICAN

RAILROAD JOURNAL.

STEAM NAVIGATION, COMMERCE, FINANCE,

INSURANCE, BANKING, MINING, MANUFACTURES.

HENRY V. POOR, JOHN H. SCHULTZ, Editors.

SATURDAY, NOVEMBER 30, 1861.

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Mr. FREDERIC ALGAR, No. 11 Clements Lane, Lombard Street, London, is the authorized European Agent

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American Railroad Journal.

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New York, Saturday, November 30, 1861.

The Foreign Exchanges.

The recent advance in the rates of sterling exchange is attracting attention, and is creating some, though apparently groundless apprehension, lest they should go to the specie point. As gold is among our more important productions, equaling fully \$65,000,000 annually, there is no more reason why we should not export a considerable proportion of the product in a time of war as well as in peace. To withhold it altogether, is to refuse to avail ourselves of one of our most important elements of strength. As an article of commerce, gold, being the result of labor, does not differ from wheat or corn. We rely upon the latter, in the crisis, as our own chief support. Why should we hesitate to export a portion of all the products of the labor of our people, (except, perhaps, munitions of war), in whatever form they may exist? There is no reason, except so far that shipment of specie is, in the public mind, evidence of a balance of trade against us-that we are buying more than we have means for payment It is so short a time that we have been a gold producing country, that we have not outgrown those false dogmas in political economy, that assumptions which are fast giving way to the gold to the banks, either in payment of debts 823,000. The manifests from California have

and other kinds of property it enables society to effect. So far as such transfers can be effected without its intervention, an equal amount is added to the public wealth.

At the commencement of the rebellion we had an abundant supply of gold for the commercial wants of the country. The experience of a domestic war was a new one, and it was natural that we should wish to accumulate a large amount of the precious metals for unforeexpenditures which have thus far been made, vide against it. and which have equaled \$150,000,000, have exerted no tendency to create a scarcity, or unusual demand for specie, for the very sufficient reasons that there exists at home, the greatest abundance of all that government needs for the prosecution of the war. It does not increase our dependence upon other nations. If the holders of breadstuffs are willing to take the securities of government in payment for their sales, the use of gold in the transaction is altogether superfluous, just as much as in the vast transactions at the Corn Exchange, where a gold eagle never makes its appearance, but the whole exchanges are effected by checks upon bank credits. Gold and silver are mere agencies to come at what the public needs, and if its wants can be supplied without their use, all-the better.

Our experience so far is in exact harmony with this statement. The banks have a much larger amount of specie than when the war commenced. If they pay out \$10,000,000 in a lump, it soon filters its way back into their vaults. Government pays it out for food, cloth- ance of specie in the country when the war the wealth of a nation is measured by the ing, transportation, and arms; and as fast as commenced. Since January the imports into amount of the precious metals it possesses payments are made, the recipients carry the this city, over exports, have been nearly \$40,-

more correct doctrine that this may be in in- or for safe keeping. The operations of governverse ratio to the amount of these held. There ment, consequently, have been in perfect harare five dollars in gold and silver in Mexico to mony with the general routine of business, and one in Massachusetts. Yet the wealth of the exert no tendency to absorb the precious latter is twenty times greater than that of the metals in the country. Their general effect former country. Gold is neither food nor has been to stimulate business, and make money clothing. Its use is in the transfers of these really more abundant, as the amount of this, including bank credits, is always in ratio to the transfers of property.

Another reason why the war has had no effect to absorb the precious metal, is the fact that, from the general confidence which prevails, there has been no hoarding by our people. There might have been with short crops, or had the war been upon northern soil. But as no apprehensions have been felt for the future by the community at large, no extraseen contingencies that might arise. But the ordinary means have been resorted to, to pro-

As the condition of affairs in the states loyal to government is healthy and normal, and as the war, which is in effect, waged on a foreign soil, is not a disturbing element, we need feel under no apprehensions as to the effect of moderate shipments of gold. We produce at least \$65,000,000 annually. The effect of retaining at home the whole amount raised, would be to convert California into a great curse instead of a great blessing, as it would convert a large proportion of the labor of the country into an article which can neither be eaten, drunk nor worn; and which, except as currency, cannot be made the basis of re-production.

Assuming that we had a supply adequate for the business wants of the country, when California was discovered, and that an addition of \$10,000,000, annually, was all that was needed to meet the increased wants for currency and the arts, our interests were promoted in shipping the balance, just as much as shipping an equal value of grain or animal food. They still lie in the same direction. We had an abund-

650,807. \$10,000,000 more received from California through private hands. This is below the estimate of persons having the best means of form-

ing a correct opinion.

We have, then, fully \$82,000,000 of specie in the country more than we had on the first day of January last. We can part with onehalf this sum, not only without the least inconvenience, but with great advantage to ourselves. The only harm that could result is from the fears that might be created, but which are entirely groundless. We have not yet worked out of our heads the old errors that so long enslaved the world. We are timid, because we are inexperienced. A shipment of a few millions at the present time might be the best thing that could happen, in dispelling an existing, though groundless alarm.

But such an event we do not regard as probable. The condition of our foreign trade shows that specie must still come to us, and will continue to come, though the flow may be affected by extraordinary causes, which are likely to have a very brief continuance. The exports from the port of New York since January 1, 1861, to the third week in November, exclusive of bullion, have equalled \$120,542,-157, against imports for the same period equalling \$112,987,672. The balance in our favor at this port, so far, is \$7,554,485. This will be greatly increased by the close of the year. For the same period in 1860, the imports into this port over exports. were \$119,912,465; the imports being \$208,695,203; the exports \$88,-782,738. Adding excess of imports last year to the excess of exports this, the change in our favor has been \$126,466,950. The corresponding change in the movement of specie has been equal to \$82,280,000; the exports from this port the past year having been \$41,457,000 and the imports over exports, the present, \$40,823,000.

The causes of this extraordinary change are still operating in their full force. Of the total imports the present year, \$78,000,000 were for the first six months of the year. For this period the imports were at the rate of \$3,000,000 per week. The rate for the last half of the year has been only about one half as great. At the rate for the last half of the year, the imports into this port for 1862, will not be over \$80,000,000-a sum \$60,000,000 less than the exports of domestic produce from it for the year. An important addition is always to be made to the value of our exports, being the freight of produce exported, nearly all of which is in American bottoms.

Shipments of gold cannot take place, apparently, resulting from the condition of our foreign trade. If there is any movement, this must be from extraordinary causes, the most potent of which is the return of securities for sale. We do not apprehend such a movement sale. We do not apprehend such a movement to any considerable extent. Prices here are far below their ordinary range. The finances York and Harlem Railroad.

equalled \$31,827,807; making a total of \$72,- of the several States were never in a more To this should be added at least prosperous condition. The value of railway property in the North is steadily improving. The earnings of our railroads were, for the period of the year, never better. The effect of the war is to increase rather than diminish the traffic of such as connect the interior with the senboard. The vastly increased traffic of the Erie and New York Central is proof in point. The earnings of these are 20 per cent. greater than they were the same time a year ago. Securities are not apt to be thrown on the market when there is a good prospect of a steady improvement both in their value, and in the traffic of their roads. Some may come home, but there is an almost equal probability that the present low prices will attract buyers, instead of inducing sales. At any rate, the cause referred to is not likely to be an important element of disturbance.

> We cannot refer the recent rise in exchange to any cause that will probably continue, or cause much, if any movement of specie. The transactions are not large. The inquiries are made rather in anticipation of wants, than to meet any existing ones. Such is the prevailing conviction. But should the shipments of specie commence, and go to any threatening extent, we have abundant means for checking it. We understand that the last government loan is held in reserve for this purpose, and that arrangements are already in progress for drawing against either its sale or hypothication. We do not suppose that any such step will be resorted to, as we do not believe that the emergency will arise. Before it should be resorted to, we can very well part with a large amount of gold. But should it be thought best to prevent its shipment altogether, we can easily

> We have another means for reducing importations-raising the rates of duties. But we hope these will not be increased. Any change, if made, should be in another direction. can afford to be much more liberal, and still be on the safe side. With cheap money at home, and cost of transportation from abroad, our domestic establishments can keep out of our market all foreign merchandise that we cannot readily produce. We have little to fear on account of a balance of trade against us, in any point of view; and least of all, when we have overflowing harvests, with a dearth abroad, and duties on many of the articles that we have been accustomed largely to import, almost prohibitory.

T. W. Watson & Co., car builders, Spring field, have executed a large amount of work for the Government, the past summer, and since July last have employed some 350 men. They have built in this time, 290 caissons and limbers for the United States, besides one battery for the State of Illinois, consisting of 6 gun carriages and limbers, and 6 caissons and limbers. In the meantime, they have built 24 street cars for the Brook-lyn and Coney Island Railroad Co., and are now

Buffalo and Lake Huron Railroad.

We give below the report of the English Directors of this company, presented at the halfyearly meeting, held in London on the 5th inst. It is dated October 9, 1861, and signed on behalf of the Board of Directors in England by Harman Grisewood, Chairman.

DIRECTORS' REPORT.

Owing to the voluminous character of the reorts transmitted from the Canadian executiveboth monthly and half-yearly, with great regularity, your directors have decided, in the present instances, to give the proprietors the information therein contained in a condensed form, and have endeavored to furnish a clear and faithful reprecentation of the present condition and working of the railway.

The amount of share capital sanctioned by the act of incorporation is 1,640,000l. sterling, and of this amount the total issued under authority of the votes of the proprietors is 1,430,000l.:-

At 31st Jan., 1861. Authorized, Collected. 1st and 2d issues of shares of 201, 10s. each£615,000 £615,000 Preference convertible shares

of 10*l*, each Temporary chattel mort. loan. ... 150,000 133,960 50,000 37,600 3d issue, April, 1859, shares of 201. 10s. each (issued at

51. 2s. 6d.).... 615,000 153,480 £1,430,000 £940.040

Calls in arrear (3d issue, April, 1859)... 270 Preference shares in hands of the Co. .. 16.040 Unsubscribed on chattel mortgage loan. 12,400 Difference between nominal and actual value of 1859 issue 461,250

£1,430,000

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Capital Account-Works .- The chief expenditure under this head has been in the construction of the road for connecting the line with the waters of Lake Huron, and for the necessary adjuncts of an elevator, platforms, and freight-sheds and sidings at Goderich, together with wharfage and other improvements at the harbor. Of these works the greater part should have been ready by May, but were retarded in their execution by various causes, so that the line to the harbor was not open for traffic until 17th June, and then in an incomplete state; and on portions of the new road there is still some work to be done under the contract which has been postponed to next

A considerable amount of dredging inside and at the entrace of the harbor had to be undertaken before vessels of heavy burden could enter and be berthed, the greater portion of which has been done and active progress is being made with the remainder. Your directors are strongly urged to extend the piers at the harbor mouth as a further protection against accident to vessels entering, and against the channel being narrowed, or a bar re-formed. The cost of this work may be roughly estimated at \$10,000 for an extension of two hundred feet in length, which is represented as sufficient for the purpose, although a greater length is recommended. The board have to inform you that a committee of the Provincial Legislature have reported strongly in favor of Godrich as a harbor of refuge. The Government, however, have not yet given effect to this report, beyond causing a survey of the coast to be made by their engineer. The directors have lest no opportunity of pressing the question on the attention of the Government, and have solicited pecuniary aid towards perfecting the harbor, but hitherto all their applications have been uncessfal. It will be seen that the general manager in his report enlarges on this subject. On the main line there has been but little out-

lay beyond building stone culverts, and a junction station at Stratford; part of the cost of the latter will by agreement be borne by the Grand Trunk. A wharf at Fort Erie destroyed by fire has also been reconstructed; the sum of \$2,000, at which it was insured, has been duly paid to the company by the insurance office.

There appears in capital account an item of \$19,326, under the head of "cars, trucks, &c.," the whole of which has not, in fact, been expended, but \$19,184 represents material purchased and labor bestowed towards the construction of 50 box cars which the company has contracted to build at their shops for the Brantford Car Company, and which will therefore be paid for by the latter company on their delivery.

Revenue.-The following table shows a comparison of the gross receipts and expenses for four half-years, rendered in sterling money :-

18	330.	186	1.
Jan. 31.	July 3I.	Jan. 81. J	uly 31.
Revenue £35,835	28,286	36,596	36,216
Expenses 29,755	26,989	27,296	30,571
£6,080	1,296	9,300	5,644
Av. weekly traffic 1,378	1,087	1,407	1,392
Av. per mile per	a sand	1 1	and the same
week 8	6	8	8
Clear av. weekly		1 1 2 100	Land
profit 233	49	357	217
Per-centage 83	95	75	84

The increase of traffic over the corresponding half-year herein shown arises mainly from local freight, chiefly on the western division, and from connection with the lake trade at Goderich. In foreign passengers and freight there has been a falling off, which has, however, been compensated by an increase in receipts from live stock. Local passenger travel shows a moderate improvement.

The above returns afford an indication of the improved condition, resulting from the bountiful harvest of 1860, of the trade and commerce of Canada, greatly checked and restricted as these must have been by the embarrassments existing amongst its nearest neighbors and best customers in the Northern States. On the abrogation of the prejudicial agreement that formerly existed between the Grand Trunk and Great Western, your directors hoped that arrangements would be made for bringing over your road a large amount of through traffic. To this end an agreement was entered into with the Grand Trunk which unhappily has not been productive of the anticipated results; this disappointment is attributable partly to the want of preparation on the part of that company to secure the full benefit contemplated, and partly to the stagnation in that class of business consequent on the troubles in the United Your road as a link in a through rail route is consequently as yet untried.

The arrangement entered into for four propellers to run between Chicago and Goderich, alluded to in the last half-year's report, came into operation before the Goderich Harbor works were available; owing to this fact, and to the low lake rates for freight current during the early part of the season of navigation, the amount guaranteed to the owners of the boats by this company has not been covered; but as freight rates have lately materially advanced, any loss hitherto incurred may, and it is hoped will, be recovered.

The board consider it but reasonable to defer any statement of the results of an experiment justified alike by the policy and the requirements of the railway, until after the close of navigation. Enough has been done so far to demonstrate the value of the new route; and the first year's experience, although the business has been worked under many disadvantages, will not prove unsatis-

The following table shows in detail the revenue and expenses for four half-years :-

	186	0.	18	61.
Revenue.	Jan. 31.	July 31.	Jan. 81.	July 31.
Passengers	\$53,983	\$45,821	\$54,810	\$50,162
Faeight.	115.642	86,448	116,550	118,830
Mails	2.415	2,415	2,415	2,815
Exp. & parcels.	1.097	2,189	2,827	1,991
Sundries	1,264	1,285	1,500	1,854
100000000000000000000000000000000000000		-	-	-

Expenses.	ite earr	GINI OCI	to due	drugiens.
Maintenance	35,247	\$35,946	\$31,103	\$36,329
Locomotive exp.	28,616	25,223	30 019	85,729
Transport. exp		21,226	24,569	28,243
General charges.			15.122	16,653
Steamb, expen's		7.545	6.655	8.782
Agencies		8,057	2,833	3,211
Transport.freig't		1000000	or Manager	THE PARTY
and passen'rs,	accoun	amnoui s	of signs	wolfol ad
Buffalo		6,583	8,025	7,525
Sundries-includ-		0.897		· Shares
ing London of-			4080	aufeast
fice expenses		6) r sone	CA LINEAT	unvarid ti

The average cost per mile per annum of main tenance of way and buildings compares thus :-

\$144,898 131,349 132,841 148,781

1860. July 31. Jan. 31. Jan. 31. July 31. £90 £93 £82

direc., &c.... 10,925 16,581 14,512 12,854

The serious question of renewals, and of the state of the way and works on other Canadian railways, having been recently mooted, the board were desirous of obtaining an independent and competent opinion as to the condition of your railway, and Mr. Peter Elmslie, C. E., of Buffalo, was selected to make a complete survey of the road and works.

The directors consider his report to be of a sat isfactory character, and generally in harmony with the views of the general manager and of the engineer, both of whom went carefully over the whole line. Provision will, however, have to be made for the prompt renewal of about five miles of the road between Paris and Brantford.

The locomotive and car repair expenses compare with former half-years as follows:

1860. 1861 Jan. 31. July 31. Jan. 41, July 31. Mileage205,774 157,012 175.510 224,565 Expenses ...\$35,111 \$33,509 \$38,114 \$46,580 Cost per mile run 8d. 101/d. 101/2d.

The number and condition of the locomotives are in a most efficient state of repair, the result of the heavy expenditure during this half-year. Two engines which had become unfit for traffic service have been appropriated to other purposes. The Welland has been furnished with a supply of locomotive power from your stock during the half-

The condition of the stock of cars generally has been improved considerably, but some of the first-class cars, as well as some flat and gravel cars, still require extensive repairs to put them into thorough order.

There is a discrepancy in the number of cars now on the road, as compared with former reports to the extent of two box and four flat cars, and no entirely satisfactory explanation has been, so far, received; measures have been adopted to prevent the recurrence of such a loss, which there is ground for believing took place several years ago. The fixed plant in the workshops and the ago. tools are reported to be in excellent condition. Transportation expenses compare as under:

0.20.868 195.0	186	0	1180	31.
Bur ser se eta.	an. 31.	July 31.	Jan. 31.	July 31.
Conductors, &c	3,868	\$3,523	\$3,825	\$5,026
Police	1,844	1,872	2,105	2,207
Porters	4,436	4,872	4,437	5,325
Stores	8,230	1,116	1,841	1.852
Car expenses	6,695	8,286	9,540	10,642
Exchange of st'k.	1,279	661	871	628
Telegraph exp's	974	690	1,774	1,131
Freight expenses.		201	1,174	1,429
				-

\$23,333 \$21,226 \$24,569 \$28,248

The efforts made to obtain through business, the increased traffic, and the consequently greater mileage run, have, as was to be expected, necessitated enhanced expenses; but these are not greater per mile run when compared with the corresponding half-year. The directors are happy to \$174,401 137,660 178,103 176,258 add that, although the train service has bee

much greater, it has been conducted with regu larity, and with freedom from accident.

The stock of stores shows an increased \$6,000, which is accounted for principally by the purchase of car material. The wood supply has been placed under new superintendence. Although the number of cords on hand, when stock was taken for delivery to the superintendent, excee the number stated in the last report by 1,952%, yet the quality was found to be very inferior, and the estimated value proved unequal to the sum then credited by \$611, which has been written off against revenue as loss, being actually an insufficient appreciation of the cost of the fuel in previous half-years. On the same principle the item of \$1,408 for repairing wood cars has been similarly charged. There is reason to expect that the cost of fuel will not exceed, for some years, a maximum price of \$3 per cord.

Postal Subsidy.-Nothing has been decided in reference to this grievance of all the Canadian companies, who, while they concur in their views in regard to it, have hitherto failed in obtaining a remedy. The directors will not fail to press the importance of this subject in every way in their

Executive.- The board record with regret the retirement of Mr. C. S. Hill from the direction in Patchin has necessitated his withdrawal from the Canadian board. Steps have been taken to fill up these vacancies. The general manager has spared no exertion under most discouraging circumstances; and the board have only to renew their high sense of his energetic and intelligent conduct of the affairs of the company. The staff, both here and abroad, have fulfilled their ardous duties with great zeal and efficiency.

In conclusion the directors offer a few remarks on the present position of the company.

It will be gathered that the means at the disposal of the board are almost exhausted, and that to enable them successfully to carry out the objects for which all the expenditure has been incurred, they have no other alternative than to call in the aid of the proprietors. The board are not unmindful of the support they have received from many shareholders, nor are they insensible of the confidence that has been placed in them during the past three years, during which time the prosperity of the company has been retarded by a series of misfortunes, coupled with no little injustice and opposition in the province. These will be fresh in the recollection of the shareholders, who are, however, reminded that the company has throughout maintained its credit and independence, and has made material progress as regards the completion of all works contemplated, as well as in the attainment of those objects for which they were undertaken. The directors desire to point out the small amount of indebtedness of the company—the moderate sum per mile per week required to propuce a satisfactory result—the steady development of the resources of Canada, and particularly of the district through which this railway passes, as evinced by the gradual increase of local trafficthe large amount of traffic to be drawn from the lakes-as some of the reasons why the board deem it to be desirable that the proprietors should not withhold the means of perfecting that which has advanced so far. The amount required is not large, and there are no other works of magnitude requiring any very extensive outlay.

Whilst holding these views, however, the board have determined, in the present circumstances of the company, that it is desirable a committee of shareholders should confer with them on the best means of supplying the required relief; and for this purpose they will be prepared to name five gentlemen, whom they will ask the proprietors to appoint, while they earnestly invite the cordial co-operation of all in giving effect to such measures as may hereafter be proposed. Much—almost too much—has devolved upon the directors in the management of this company, but they are not willing, at this stage of affairs, to see their exertions nullified for want of some further trouble,

President of the Canadian Board-Grongs BROWN, Goderich, C. W.

General Manager-Robert S. Carter, Brantford, C. W.

Secretaries-WM. McLEAN, Brantford, C. W. THOMAS SHORT, 80 Lombard St., London, Eng.

Hartford, Providence and Fishkill R. R.

This company is a consolidation of two companies, viz: the Providence and Plainfield, chartered in Rhode Island in June, 1846; and the New York and Hartford, chartered in Connecticut in 1845. Both charters provided for a union of the companies, which was consummated in 1847. The object of these companies was to construct a railroad from Providence, through Rhode Island, Connecticut and New York, to the Hudson River at Fishkill, opposite Newburg, and there connect by ferry with the New York and Erie railroad. The work of construction was commenced in 1847, and the road completed as follows: from Hartford, east to Willimantic and west to Plainville, in 1849; from Plainville west to Bristol, in 1850; from Willimantic east to Providence, in 1854; and from Bristol west to Waterbury, in 1855. The whole length of the road is 122,36 miles-of which 26.32 miles are in Rhode Island, and 96.04 in Connecticut. The length of sidings, turn-outs, etc., is about 11 miles.

The amount of capital stock authorized was \$4,500,000, of which \$2,087,940 have been paid in, viz: common stock, \$1,537,940; preferred stock, (of which \$101,200 are claimed to be hypothecated) \$500,000.

The preferred stock was created in 1854, and calls for dividends at the rate of 10 per cent. per annum, and has preference over all other kinds of stock. Three semi-annual dividends were made on account of the same-since which nothing has been paid.

The funded debt of the company consists of \$2,055,500 first mortgage 7 per cent. coupon bonds (of which \$18,000 are claimed to be hypothecated). The mortgage provided for an issue equal to one-half the cost of the road. Of the whole amount \$481,000 are a lien on that portion of the road lying in Rhode Island; and \$1,574,-500 on that portion of the road lying in Connecticut. The bonds are payable at various dates from 1860 to 1876; interest semi-annually Jan. 1 and July 1 at at the company's office in Hartford. The cities of Hartford and Providence each hold \$500,000 of the company's bonds, taken in exchange, and as security for their own bonds for like amounts, delivered to and sold by the company. The bonds held by the cities fall due in 1876. The City bonds bear six per cent, interest. The difference in the interest between these and the company's bonds, (one per cent.) is paid to a Sinking Fund for the retirement of the latter. The amount held by the Providence Sinking Fund at this date is \$41,000, and by the Hartford Sinking Fund \$51,911 17. Failing to pay the coupons due January 1, 1858, the directors assigned the whole property of the company to trustees, who took possession on the 1st of February following, and have since that time had bonded interest overdue, is \$123,934, being the 158,919; and the earnings less expenses \$1,074,two semi-annual payments on bonds sold of Jan. 1 715, averaging \$119,413. The average length of -Cedar Valley Times.

the trustees, out of the future earnings of the road over the charge for current interest on bonds sold. The interest on the bonds falling due in 1859, 1860 and 1861, has been regularly paid. The percentage due the Providence Sinking Fund in 1858, amounting to \$5,000, is yet unpaid.

The following is the income account from Febrnary 1, 1858, to September 80th:

Receipts:	1859.	1860.	1861.
From previous ye	ar	\$27,829	\$47,116
passengers	\$286,742	185,403	163,068
" freight		167,048	123,998
" mails		8,500	8,700
" express, et	***	4,376	4,646

\$535,004 \$393,156 \$347,528

Disbursements: \$290,011 \$203,276 \$202,413 Operating expenses. 133,059 142,764 142,905 are: Interest paid Bonds due July 1st, 52,230 1859, paid. Interest accrued on 81.875 2,210 47,116 27,829

2535,004 2393,156 2347,528

	Sundry claims and vouchers
	Cash
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802,	ce
\$3,908,	Cost of road
\$4,440,	
52,	Bonds paid by trustees and cancelled 62,280
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100,	
230,	
2,029	_
398,	
\$1,637,	Common stock
1860	1859.
1	GENERAL STATEMENT, OCTOBER

COST, EARNINGS, EXPENSES, ETC., YEARLY.

Gross Operat-Cost of Net Mile-Road and Earning Ex-Earnage. ings. penses. ings. 50.77 \$98,941 \$40,251 \$58,690 Equipment. 1853. \$3,008,214 1854. 3,439,529 107.22 166,212 72,019 4,060,869 122.86 258,685 189,074 119,611 4,156,384 122.36 340,586 197,778 142,808 4,202,519 122.86 367,895 226,871 141,024 4,202,519 122.86 278,428 167,866 105,562 1857. 1858 1859. 4,205,966 122,36 333,500 180,723 152,777 1860, 4,205,966 122,36 365,327 203,276 162,051 1861. 4,204,866 122.86 300,412 202,418 97,999

The gross earnings of the road during the nine years included in the above statement have been \$2,504,986, averaging \$278,332 per annum; the expenses of operating the road during the same the management of the road. The amount of time have been \$1,480,271, averaging yearly

Provided they meet with the support which the and July 1, 1858, and which is yet to be paid by road in operation has been 112.72 miles; and the average cost \$3,965,200.

Year ending Oct, 1. Miles run.	Passengers carried.	Receipts per mile run.	Expenses per mile run.	Proportion of exp. to rec'te.
1856276.000	319,432	\$1.28.4	.7165	.5806
1857307,958	362,511	1.19.5	.7365	.6106
1858225,816	285,498	1.21.3	.7450	.6139
1859246,523	358,544	1.35.3	.7331	.5419
1860258,087	899,749	1.41.5	.7876	.5564
1861229,088	349,943	1.31.1	.8835	.6738

The equipment of the road consists of 16 locomotives; 20 passenger, 9 baggage and 207 freight cars, and over 40 cars for gravel, etc.

The office of the company is at Hartford, Conn The officers and directors chosen October 23, 1861.

President-A. S. BECKWITH.

Directors-A. S. Beckwith, S. Hutchins, H. Lippitt, Byron Sprague, G. B. Holmes, S. Harris, C. Day, Alfred Smith, A. Day, V. Cornish, J. P. Elton.

Secretary and Treasurer-H. T. SPERRY. Engineer and Superintendent-Samuel Nort. Trustees under Connecticut mortgage-D. F. Robinson, G. M. Bartholomew, and Calvin Day.

Trustees under Rhode Island mortgage-S. Hutchins, S. T. Olney, A. C. Moran, and the Treasurer of the city of Providence.

Baltimore and Ohio Railroad.

At the annual meeting of the directors of this company held in Baltimore on the 19th inst., John W. Garrett, Esq., was unanimously re-elected President for the ensuing year. Upon being informed of the result, Mr. Garrett appeared and addressed the meeting as follows:

Gentlemen-Your committee has informed me that the board has again honored me with a reelection to the presidency of this company by a unanimous vote.

Under the grave responsibilities and difficult and unprecedented circumstances by which the management has recently been environed, this renewed expression of your confidence and appreciation of the faithfulness and labors of your executive, and of his devotion to the protection and promotion of all the great interests connected with the company, demands my cordial acknowledgments.

The prolonged interruption of the business of the company, whilst it has proved so seriously disastrous to Baltimore and the regions traversed by its roads, has proven with equal force that the Baltimore and Ohio Railroad is a vital necessity for this community and the large populations upon its route who are so dependent upon its fa-

The vast importance of this great highway has been made still more manifest to the whole coup-

try, and is now universally felt and understood.

We may, therefore, expect with the arrangements being organized, that at an early period the Baltimore and Ohio road will be again in full and successful operation. Under your auspices, and with that effective co-operation, upon which I know reliance can be placed, I shall confidently anticipate this most important and desirable re-

On the conclusion of Mr. Garrett's address, Joshua I. Atkinson, Esq., was re-elected treasurer of the company without opposition.

Cedar Rapids and Missouri River Railroad.

The grading on this road is completed to Marshal town, and the cars are running, and stations established for twenty-five miles west of this city. r.

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RAILROAD SHARE LIST, including Mileage, Rolling Stock, etc., etc.

TENNIOL GLOUISE MADINEMA

An asterick (*) occurring in the column headed "Rolling-Stock," signifies that the cost is included in that of "Railroad and Appurtenance...... A dash —) signifies "nil."

Running data (.....) signifies "nil."

Running data (.....) signifies "nil."

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pr. '60	349.9 88.5	13.5 28.4		67 168 - 209	5 2			361 283	Mobile and Great Northern Mobile and Ohio	84,230 - 7,853,467 1,838,718 600,000	862,129 427,265	114,894 100,000	36,646 3,481,791 1,419,769 650,000	79,664 4,717,497 922,622	858,467 23,579	116,310 12,447,378 2,582,505 1,030,957	328.0	585,543	1,120,588 505,156	651,610 260,269	6	
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Nov.	58 288 58 74 60 73	.0 -				18	25	296	Louisv., N. Albany & Chicag Peru and Indianapolis Terre Haute and Richmond. Iowa.	6,000,000 2,000,00 1,611,45		120,57	1,100,00 1,381,45	0 820,00	80,0	00 2,000,0	00 74	.0	404 50			0
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Jun.	60 66 60 188 59 18	0 84	.0 1	6.9	70.2	1.00	20	DV EIL	5 Louisville and Nashville Maysville and Lexington	8,580,71	9 126,7			9 456,5	19	1,662,7	40 64 250 260	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	270,05		69 -	
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RAILROAD SHARE LIST, including Mileage, Rolling Stock, etc., etc.

An asterick (*) occurring in the column headed "Rolling-Stock," signifies that the cost is included in that of "Railroad and Appurtenancea" A dash (—) signifies "nil.

Running dots (.....) signifies "nil.

Running dots (.....) signifies "nil.

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Years ending.	Main Line,	Lateral and Branch Lines	M 8	Road in progr	Engines.	Passenger.	Freight, etc.	Companies,	Railroad and Appurten- ances.	Rolling. Stock.	Invested in foreign works.	Share Capi- tal paid in.	Bonded and Mortgage Debt.	Floating Debt.	Balance Totalinei. all other assets and libilities.	Road operated	Mileage run motives with	Gross.	Net.	Dividends.
3 0 2 4	M.	M.	M.	M.	N	o N		MAINE.					. \$			M.	M.	*	8	p.c. pa
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\$1 May, '61 81 May, '59 81 May, '59 81 May, '59	54.7 51.8 37.0	310		33.4	1	1 13	11	Penobecot Penobecot and Kennebec Portiand, Saco and Portsmoutt Somerset and Kennebec York and Cumberland MARYLAND.	1,494,792 788,768 1,090,000	104,019	5,208	557,779 1,500,000 169,200 370,000	1,105,400 556,600 450,000	95,968 270,000	1,859,147 1,500,000 1,090,000 31,241,011	51,3 37,0 18,5		208,299 55,408		6 97
30 Sep. '60 \$1 Dec. '60	30.0 138.0	-		1	41	1 31	11,72	Baltimore and Ohio	7,003,010	855,889		2,260,000		586,070	1,824,806 9,041,851	39.0 218.0	187,427	462,880 1,018,103	290,840	9 100
30 Nov. '60 30 Nov. '60 31 May, '60 30 Nov. '60 30 Nov. '60 30 Nov. '60 31 May, '61	26.8 74.3 47.0 44.6 46.1 50.0 44.1	8.8 7.0 24.0 1.1 2.4 30.5	22.3 59.2 2.7 8.9 24.4		21 32 22 30 7 12 28	1 26 2 54 2 27 0 59 7 10 2 13	56	Boston and Lowell Boston and Maine	500,560 2,245,728 3,846,709	417,233 102,100 437,416 123,864 187,558 315,165	100	600,000 1,830,000 4,076,974 3,160,000 4,500,000 681,690 1,591,100 2,853,400	162,720 168,400 242,000 1,960 000	3,863 134,950 46,647 47,580 11,058	601,360 2,655,821 4,929,166 3,717,704 5,827,567 1,928,264 5,045,630	28.6 118.3 54.0 83.7 47.2 52.4 120.7	553,484 525,954 77,522 456,825	685,631 1,045,688 122,637 297,096 684,685	184,615 450,096 349,487 439,284 45,613 153,154	8 92 8 1081 8 1051 8 1071 124 79 4 61
30 Nov. '60 30 Nov. '60	19,9 50,9 14,0 24,9 12,4 14,6 20,2 26,9	2.4	3.6 70.9 2.0 2.3 17.1 1.0 2.3		29 3 12 7 5	3 12 16	146	Boston and Providence Boston and Worcester Cape Cod Branch Connectiout River Eastern Essex Flichburg Flichburg Stoburg	494,843	350,149 40,226 30,275 95,683 52,644 63,696		299,107 8,540,000 214,296 298,951 200,000 600,000 500,000 220,240	280,261 100,000 62,900 308,014 100,000 221,600	197,428 300 57,065 19,800 211,693	776,796 3,869,729 383,884 653,030 363,158 698,563 564,707 653,533	67.7 26.4 ope ope 30.0 21.8 36.0	55 946 337,451 37,245 r. by N. r. by B. 172,511 49,241 75,866	632,865 52,971 H.&N'h and L'll 251,683 136,565	272,299 28,837 28,791 12,550	6 98
30 Nov. '60 30 Nov. '60 30 Nov. '60 80 Nov. '60 30 Nov. '60 80 Nov. '60	8,6 79,5 18,6 48,4 16,9 11,5 21,9	7.8	25.6 0.7 14.9 1.7 0.4 1.0	23.4	27 1 12 3 2	46 2 18 3	308	Newburyport N. York and Boston Air Line Old Colony and Fall River Pittsfield and North Adams Providence and Worcester Salem and Lowell South Shore Stockbridge and Pittsfield	3,434,164 432,430 1,442,470 366,987 462,167	11,247 254,565 82,543 39,426	39,800	279,818 8,015,100 450,000 1,600,000 243,305 259,685 448,700	197,513 107,000 200,000 226,900 150,000	111,691 76,500 316 2,391		8.4 87.3 18.6 44.4 ope	24,428 413,017 83,160 r. by B.	15,891 642,406 48,169 393,589 and L'll 59,370	\$16,185 26,769 197,774 17,508 16,711 \$1,409	6 103 6 103 1 103 7 97
80 Nov. '60 80 Nov. '60 80 Nov. '60 80 Nov. '60 80 Nov. '60 1 Jun. '59	11.1 6.1 69.0 156.1 45.7		5.5 106.8 9.3	36.5	7 11 72 10 2	8 59 8	192 1,183 149	Stockbridge and Pittsfield Taunton Branch Troy and Greenfield Vermont and Massachusetts Western (incl. Alb.&W.S. etc.) Worcester and Nashua MIORIGAN, Bay de Noquet and Marquette.	478,048 3,309,622 9,933,396 1,187,935	Combine the	15,120	250,000 885,206 2,214,225 5,150,000 1,141,000	219,000 1,003,880 7,269,520 150,000	975	250,000 614,060 3,516,865 13,940,644	ope 77.0	r. by T.	and B. 211,899 1,881,351	27,817 5,333 75,810 888,254 102,604	8 9} 115 6 62
30 Sep. '59 30 Sep. '60 1	57.0			183.0	-			Bay de Noquet and Marquette. Chic, Detroit & Can.G.T.Junc. Detroit and Milwaukee	0,210,020	047,080	THE OF	2,000,000	4,200,000		9,008,369	-		365,038	144,270	
81 May, '61 2 81 Mar. '61 2	284,8 246,0	293.0	28,4	89.8	98 83	85 102	1,334 971	Grand Rapids and Indiana Michigan Central Mich S'th'n & N'th'n Indiana Port Huron and Milwaukee MINNESOTA.	13,601,120	1,637,259	2,352,574	6,057,784 9,018,200	7,968,489 9,719,704	125,000 1 437,886 1	4,191,649 9,175,790	329,8	1,281,268 1,592,377	2,126,699 2,075,459	910,169 1,035,629	3 49 18
- '69			-	620,0 175.0	1.10		100A	Minnesota and Pacific		1100	Linear Linear		600,000 - 575,000 -	M Rentu	Lead I Fe					==
- '69 · '59 · '69				112,5 200,0 60.0				Minneapolis and Cedar Rapids Minnesota Transit Root River Valley					500,000	191,130						$\equiv \equiv$
30 Apr. '60 2 1 Oct. '59 31 Dec. '58	71.4			27.8 60.4	25 7	22 4		Mississippi Central Mississippi and Tennessee Southern Mississippi		756,292 159,018	1808) 1808)	2,000,961 798,285 1,000,000	456,949	275,060	6,331,899 2 1,974,444	59.7		584,342 176,462 250,047	328,092 116,433 121,659	
30 Nov. '58 81 Aug. '60 2 81 Jan. '61 1	12.0 06.8		16.8	68.0	1 22	19		MISSOURI. Cairo and Fulton Hannibal and St. Joseph North Missouri	281,645 12,364,134	9,200	0.000,7 4	50,493 1,782,886 2,594,100	327,000 10,571,000	50,892 156,643 1	128,386 2,510,529 7,236,452	06,8	14 mo's, 10 mo's,	961,856 292,428	487,333 78,975	30
28 Feb. '59 1 31 Oct. '58 80 Sep. '60	19.0	19.0		119.0 264.0	26 16	-	412	Platte County Pacific South-Western Branch St. Louis and Iron Mountain	8,621,659 1,226,010 5,179,580	614,782 340,369	75,000	8,330,657 66,974	8,203,000 1,400,000 3,501,000	754,837 1	2,288,494 5,887,911	82.0 90.1		676,310 285,291	301,508 59,488	
51 Mar. '59 81 Mar. '59 30 Nov. '59 80 Nov. '59 31 Mar. '59 80 Sep. '69			8.2 5.6 8.0 2.5 44.0		18	10 11 4 22	26 494	New Hampshies. Ashuelot. Boston, Concord and Montreal Cheshire Cocheco Concord Concord and Portsmouth	506,000 2,580,134 2,753,697 825,200 1,500,000 250,000	283,450 822,267	8,219	246,018 1,800,000 2,085,925 389,047 1,500,000 250,000		84,327 13,070	506,000 3,015,880 8,163,731 858,264	63,6 28.1		51,698	30,000 86,338 125,159 21,866 128,366 15,000	8 15† 8 61 70
81 Mar. '59 80 Nov. '59	14.6 16.5			25.8	3	2	_	Contoocook River Eastern Great Falls and Conway	200,000 525,205 433,404	40.000	(21n, T	200,000 - 492,500 -	000 000	42,795	200,000 525,205	14.6 ope r	4,182 by Eas	16,608 tern Ma 24,027	1,528 88. 12,450	64
30 Nov. '59 30 Nov. '59 31 Mar. '59 30 Sép. '69 31 Már. '59 31 Már. '59 31 Már. '59 31 Már. '59 31 Már. '59 31 Már. '59	26,8 52,7 69,2 24,7	12.8	4.0	20,0	2225	4 13 2	80	Manchester and Lawrence Merrimae and Conn. Rivers	1,000,000 1,109,860 8,343,167 847,032	138,715 - 78,832 -	33,750	166,748 863,400 595,587 8,068,400 500,000	383,400 299,500	303,517 25,800	1.005.459	ope 1 52.7 . 82.0	268,657 49,000	59,774 353,101 63,874	88,577 21,156 187,136 19,897	8 96 4 47‡
31 Dec. '60 31 Dec. '60 31 Dec. '60	64.2 63.9 60.2	32.3		8,0				Sullivan New Jessey. Belvidere Delaware Camden and Amboy Camden and Atlantie	3,128,257 5,840,805 1,829,473		1,000,000		2,082,000	103,879	3,183,741 2,678,400 1	76.0	218	274,204 1,997,065 160,043	162,841 783,950 54,902 710,896	
31 Dec. '60 31 Dec. '60 31 Dec. '59	58.0		48.0	2.9 45.5	-	21 15		Central of New Jersey Long Dock Morris and Essex New Jersey Northern New Jersey	5,042,163 800,000 1,626,987	424,700 126,000	57,000	2,200,000	1,488,121 - 340,000 1	766,235	1,768,241	64.0	488,871 163,703	233,495	109,111	8
31 Dec. '60 31 Dec. '60 31 Dec. '60 31 Dec. '60 61 Dec. '60 31 Dec. '60	33.8 21.3 13.5 15.0				2	6		Paterson and Ramapo	8,589,031 365,344 680,000 860,000	394,228 1	200 0000	3,749,000 154,157 630,000 248,226	95,000		-	ope r	by N. by N.	V. & E.	670,720 68,400 24,440	8
81 Dec, '60	18.0			47.0	1100			Warren West Jersey	1,740,718 280,278		2,1283,12	1,140,800 216,794	600,000	90,082	-	De U		235,558 15,344	112,441 8,868	
	-	-	Parks No.			(.4)		funding fourth intolessing		110	deapt la	282 7 B / A	t, Strange	Manage 1	Distance of the Party of the Pa	1414	EES			

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RAILROAD SHARE LIST, including Mileage, Rolling Stock, etc., etc.

An asterick (*) occurring in the column headed "Rolling-Stock," signifies that the cost is included in that of "Rallroad and Appurtenances." A dash (-) signifies "nil.

Running data (....) stenife "not assertained." Land-Grant Railroads are in "italica."

1	R	ailros	d.	.o	Equ	ipm	ent.	uniterneeska 1	o Funtao I		Abstract	of Balanc	ce Sheet.		10.10	nel.	ing.	Earni	nga	1
13		7 %	pue	d.	F	Ca	rs.	Electricities electricities	Proper	y and A	ssets.	1	dabilities.		her her lia-	l, et	by h	Fall		-5-
Years ending.	Main Line.	Lateral and Branch Lines	2nd Track a	Road in progree	Engines.	Passenger.	Freight, etc.	Companies	Railroad and Appurten- ances.	Rolling- Btock.	Invested in foreign works.	Share Capi- tal paid in.	Bonded and Mortgage Debt	Floating Debt.	Balance To incl. all of assets and bilities.	Road operate road leased	Mileage run b motives with	Gross.	Net.	Dividenda
	M.	M.	M.	M.	No	No	No.	NEW YORK.	8 9	1 1	1	(Acar	100 17 23	AVITER	3073	ME	M.	ME BL.	100	p. c. p
Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60	32.9 38.3 34.9 14.8 14.5 24.7 142.0	0.9	3.3 44.0 2.6 1.6 7.0 23.4 14.4	73.6	4	12 6 28 158 32	89	Albany and Susquehanna Albany and Vermont Albany and West Stockbridge Black River and Utica Blossburg and Corning Brooklyn Central and Jamaica Brooklyn City Buffalo, New York and Erie	1,156,269	136,038 81,445 40,247 835,870	213,158	507,957 439,005 1,000,000 822,371 250,000 448,750 1,000,000 680,000	1,675,099 1,389,559 745,500 220,000 85,000	46,139 50,000 7,121 42,102 130,000 201,682		ope 0 ope 24.9 14.8 14.5 24.7	40,670 22,712 325,499 2,904,887	84,310 68,676 520,855 580,000	36,609 19,886 28,168 110,896 242,954	8
Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60	68,3 34,6 17,4 46,8 17,3 144,0		14.0 38.1 2.1 2.9 3.0 115.1 10.8		10 58 17	8	88 554	Buffalo and State Line	2,267,158 719,050 400,000 500,000 175,000 10,618,073	521,126 1,182,372 489,138		1,960,950 343,500 880,000 500,000 175,000 3,758,466	1,049,000 300,000 70,000 9,107,000	27,546 75,550 182,106 12.285	719,050 450,000 500,000 175,000	39.6 ope ope 17.3 150.0 7 101.5	r. by Er r. by Er 46,981 967,065 258,768	57,649 ie. ie. 2,047,145 343,021	498,047 10,427 24,000 30,000 778,121 119,454	6 6
Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60	297.8 446.0 138.0 8.0 99.0 118.0	258.1 19.0 2.1 8.8	313.8 282.8 29.6		211 219 33 2 28	237 194 93 8	3,171 2,763 576 8	Long Island	31,106,094 31,148,015 8,022,786 244,412 1,000,000 4,809,856	4,172,192 \$4,756		11,000,000	6,065,752 135,000 8,077,000	127,378 2,074,798 6,000	40,638,44 38,401,30	7 655.9 0 495.0 152.9 0 8.0 0 ope 0 121.8	3,945,128 3,019,000 40,880 r. by Ce 395,128	6,957,241 5,180,321 1,142,851 36,352 ntral 458,912	26,346	
Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60	75.4 25.2 18.5 18.0 21.0 40.8	6.		2 21.3	2 9	13 12 11 6	33 70 11 84	Oswego and Syraouse Pottsdam and Watertown Rensselaer and Baratoga Rochester and Genesee Valley Sacketts Harbor, Rome & N. Y Saratoga and Scheneotady Saratoga and Whitehall	1,537,509 755,124 654,021 70,468 480,684	62,517 157,048 1,050 81,166		665,419 610,000 557,560 10,305 300,000 500,000	1,000,000 140,000 150,000 83,000 378,000	192,740 750,000 19,980 61,210		75.4 59.2 ope 8 18.0 ope 47.3	79,240 119,325 r. by B. 3,365 r.byRen 114,731	80,611 269,353 N. Y. & 634	37,430 131,52	5 6 5
Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60 Sep. '60	81.8 31.6 6.0 2.1		2.	1 10.		12	117	Staten Island Syracuse and Binghamton Troy and Boston Troy and Greenbush Troy Union Warwick Valley Watertown and Rome	2,854,212 1,866,326 258,835 752,601 84,295	168,437 36,078	3	62,731 1,200,130 605,911 274,400 50,000 54,500	1,643,158 1 806,500 0 680,000 0 4,500	121,06 247,15	0	81,0 - 112,0 - ope - ope	191,579 280,643 r. b. Hud r. by oth	227,488 312,066 a. River. er Co's.	139,81 160,23	6
May, '60 '59 Sep. '60 Sep. '59 Mar. '60	97.0 161.0 161.1	15.0	-		23 24		183	NORTH CAROLINA. Atlantic and North Carolina North Carolina Releigh and Gaston Wilmington and Manchester Wilmington and Weldon Western North Carolina	4,235,000 1,240,241 2,632,731 2,869,221		232,900 107,000 4,700	1,340,21	0 126,200 0 1,045,000 3 791,050	51,30	1 3,114,98	97. 97. 9 171. 4 171.)	206,917 469,458 477,564	108,54 219,68	1 =
Dec. '56 Aug. '56 Mar. '61 Dec. '66 May,'55 Dec. '66	9 118. 9 137. 1 60. 0 30.	3 -		69.	0 16	39 28	50	Onto. Atlantic and Great Western. Bellefontaine and Indiana Central Ohio Cinc., Hamilton and Dayton. Cinc. and Indianapolis June. Cinc., Wilmington and Zanest Clieveland, Columbus and Cin	3,088,218 5,579,508 2,648,296	922,670	68,74	1,628,356 7 2,155,80 - 2,441,17	3 1,267,078 6 3,673,000 0 1,356,000 6 3,032,000	1,126,45	1 3,565,96 8 6,810,43 - 3,708,36	32 141. 32 198. 32. 131.	382,98	-	71,35 282,70 19,18	6 7
Dec. '60 Nov. '58 May '61 Dec. '58 Dec. '58	0 67. 0 95. 8 101. 1 109. 8 61. 8 72.	0 4 1. 0 102 2 79. 4 —	2 37.	18. 0 — 53 - 31	- 30 - 42 - 32 0 5	45	40 9	1 Cleveland and Mahoning O Clev., Painesville & Ashtabul Cleveland and Pittsburg 9 Cleveland and Toledo O Clev., Zanesville and Cincin. 3 Columbus and Indianapolis.	2,560,01 la 3,221,63 9,320,28 6,697,17 1,574,69 2,555,00	7 268,30 549,59 8 483,16	3 298,97 3 541,60 0 89,29	1 1,155,15 3,000,00 8,942,36 8 8,343,80 369,67 750,00	2 1,693,30 0 1,602,00 8 4,918,32 0 8,850,57 3 575,25 0 1,000,00	304,18 5 658,82 190,41 0 632,48 205,00	2 3,341,05 1 9,661,10 3 7,612,40 6	20 67. 96. 92 206. 96 188. 61. 72.	230,46 6 402,93 5 646,41 6 75,12 0 144,00	1 369,848 5 1,063,406 8 772,098 919,971 0 68,128 0 84,000	238,00 638,64 3 332,09 493,95 19,76 17,76	15 18 4 6 13
Nov. '86 Mar. '61 Aug. '66 Aug. '56 Dec. '66 Aug. '56 Aug. '56	1 144. 0 36. 8 16. 0 45. 9 36.	0 — 0 — 0 —	7.	47	- 6	3	7	Columbus and Xenia Dayton and Michigan Toayton and Western. Dayton, Xenia and Belpre Eaton and Hamilton Fremont and Indiana Greenville and Miami	5,087,57 999,17 860,49 1,101,74	1 112,64 104,91 1 79,02	4 4,80	0 2,195,76 307,24 437,83 0 469,76	2 2,521,70 6 716,00 8 422,66 2 728,86	0 350,82 0 80,84 8 152,66 0 75,00	5,241,8 5 1,104,0 4 1,358,8	12 144. 86 36. 16. 87 45.	0 40,06 0 40,06 0 60,90	1 63,141	3,56 33,00 43,86	77 36 36 36 38
Nov. '56 Nov. '56 Dec. '56 Apr. '66 Aug. '56 Jun. '66 Dec. '66	8 83, 8 173, 1 192, 8 117, 1 153,	5 21. 3 - 0 8. 9 52	0	.8	- 89 - 33 - 48 - 17 - 40	35 26 84 16 26	60	O Iron 2 Little Miami 2 Little Miami 3 Marietta and Cincinnati 8 Ohio and Mississippi 8 Pittsburg, Columbus and Cin 1 Sandusky, Dayton and Cin 6 Sandusky, Mansfield & New 4 Scioto and Hocking Valley Springfield and Columbus 1 State of the Columbus 1 Springfield M. V. 4 Pitter 1 State of the Columbus 1 Springfield M. V. 4 Pitter 1 State of the Columbus 1 Springfield M. V. 4 Pitter 1 State of the Columbus 1 Springfield M. V. 4 Pitter 1 Springfiel	3,451,17	785,81	2 574,00	0 8,477,70 6,584,68 - 1,906,73	1,399,00 7,405,91 9,880,00 2,400,00 2,613,38	0 34,16 7 1,754,25 0 2,330,00 0 466,21 4 140,90	6 4,709,13 10 13,202,2 10 18,794,7 15 6 5,523,1	62 196. 21 192. . 125. 35 206.	0 637,83 4 556,73 3 9 452,63	5 1,200,496 2 374,196 898,818	841,58 45,48 169,94 5 58,58	8 2 3
Nov. '5 Aug. '5 Nov. '5 Aug. '6 Jan. '6	8 55. 8 19. 8 49. 0 243.	6 — 5 — 8 — 0 —		- 74 - 23 - 62	.5 2 4 31	1	8 58	O Toledo, Wabash and Wester PENNSYLVANIA. 77 Alleghany Valley	rn 8,019,58	9 *		403,97 193,00 1,000,00 3 2,123,50	75 500,00 00 150,00 00 1,050,00 00 5,843,65	0 100,00 0 8,5 0 200,0 0 488,2 5 62,6	00 346,5 00 2,250,0 55 8,498,9	55. 00 op 00 49. 47 250.	6 70,00 e r. by 0 8 222,00 0 61,62	0 110,200 C. & C 861,72	878,7° 2 878,7° 2 45,10°	72
Aug. '5 Dec. '6 Sep. '6 Dec. '6 Nov. '5 Sep. '5 Aug. '6	9 20. 0 68. 0 52. 0 110. 9 86	5 — 5 — 8 2 3 — 6 —	23 - 3 - 3 - 3 - 3 - 4	2	- 16 - 25 - 11 - 74	1	1,00 4 30 8 6	6 Beaver Meadow	966,79 8,403,50 1,192,11 n 9,145,95 900,00 700,00	0 10,61	106,18	- 386,12 - 600,00	00 53,50 00 270,50 57 5,222,91 21 365,50 400,00	0 48,3 6 733,6 0 188,5	1,412,9 58 1,296,5 22 11,680,3 15 940,1	. 146. 68 52. 57 202. 36 86. 00 op	0 5 0 3 e r. b.Bu	f. & S. L.	116,89 6 1,316,69	22 8 88 6
Aug. '5 Aug. '5 Sep. '5 Nov. '6 Nov. '5 Dec. '6	9 32 9 30 9 68 0 45 9 28 0 20	3 — 9 11 9 — 7 — 0 — 6	3 4 2 22 0 18	.2 44 .6 — .2 11 .3 20 .6 —	1 16	0010	8	Harrisburg and Laneaster [7] Hempfield [8] Lackawanna and Broad Top [8] Lackawanna and Broomsbur [9] Lehigh Valley [1] Little Schuylkill [1] Lehigh Coal and Navigation [8] Mice Pill and Schuylk Have	1,388,16 1,854,79 2,067,30 3,787,53 3,299,60 1,380,00	8 * 4 * 8 * 107,00 * 0 * 0	4,455,00	1,087,10 1,809,56 425,01 710,00 1,966,38 2,256,10 0 2,479,96 2,800,00	88 15 1,000,00 00 1,100,00 1,500,00 942,50 50 8,413,67	0 206,50 0 167,30 0 85,00	1,809,5 0 1,631,5 3 2,164,3 0 3,299,6	68 32 65 42 08 68 45 00 op 82	3 2 9 7 188,50 e r, by C	32,41 84.01 116,20 679,90	7,2 7 8,4 0 67,6 8 842,0 8 670,2	6
Nov. '8 Jun. '6 Dec. '6 Sep. '8 Sep. '8 Nov. '6	10 881	6 10	1 391	1.7	20	1 12	0 80 4 2,60	8 Mine Hill and Schuylk, Have Morth Pennsylvania B Pennsylvania I Phila, and Baltimore Centra. Phila, Germant'n & Norrist & Philadelphia and Reading Philadelphia and Trenton	23,581.16 284.00	2 396,95 8 8,066.25	27 59 8,474.54	3,155,87 13,261,96 - 1,208,50	75 2,940,47 80 17,163,94 250,00	7 367,4 0 50,0 0 104,7	28 6,471 4 89 32,407,1 100	62 65. 94 423. 20. 33 24	7 5 mos 0 3,476,81	176 04 12 5,982,70 1,63 - 288,66	1 2,296,46	

RAILROAD SHARE LIST, including Mileage, Rolling Stock, etc., etc.

An asterick (*) occurring in the column headed "Rolling-Stock," signifies that the cost is included in that of "Railroad and Appurtenancea." A dash (--) signifies "nil, Running dots (----) signifies "nil, and Grant Railroads are in "italica."

	R	ailro	d.	5	Eq	uipr	nent.	Holoney Short	o feetla	Α,	Abstrac	ot of Bala	nce Sheet.		Lite	nol.	989	Ear	nings.	1	1
ending.	Jue.	ral and	Track and Sidings.	in progress			t, etc.	Companies	- 4	arty and .	9	-	Liabilitie	1	e Total, all other s and lia-	perated, in	with t	da in		nds.	of sharos
T S	Main I	Later	2nd B	Road	Engine	Passenger	Freigh	AND AND AND	Railroad and Appurte	Rolling	Invested foreign works.	Share Capital paid in.	Bonded and Mortgage Debt.	Floating Debt.	Balanc incl. asset biliti	Road o	Mileage	Gross.	Net	Dividend	Pelos
81 Oct. '60 80 Jun. '61		М.	M. 8.2		-		No.	PENNSYLVANIA, (Continued.) Pittsburg and Connellaville Pittsby, Ft. Wayne & Chicago	2,724,805	81,130	31,400	1.755,820	\$ 1,292,700 7 10,192,150		3,378,707					p.8	- p.
0 Sep. '59 0 Sep. '59	31.0 54.0		8.0	11.0	7					- laie to	01/40	1,221,27° 1,258,700	7 280,000 97,000		1,355,700	54.0			29,004		-
1 Mar. '61 1 Dec. '59	28.0 148.0	1.2	2.0 20.0	140.0	4	1		Schuylkill and Susquehanna Schuylkill Valley Shamokin Valley & Pottsville Sunbury (Phila.) and Erie		95,888		4,506,920	789,970	861,271	573,616 1,724,227 10,1 ₆ 9,869	148.0		84,501 96,227 114,126	54,582 61,848		
0 Nov. '59 0 Sep. '59 0 Sep. '60	26.4	6.5	31.9 2.1 6.0		8 4 16	11 8	9	Westchester and Philadelphia Williamsport and Elmira	703,349 1,410,638 4,050,314	74,677		97,550 682,170 1,500,000	944,169	52,434	1,679,301	26.4	****	83,072 125,597 238,420	4,502	-	-
1 Aug. '58 0 Nov. '58	50.0 13.6	-	2.0 0.5	=	9	13	84 5	RHODE ISLAND. N. Y., Providence and Boston Providence, Warren & Bristol South Carolina.	2,158,000 434,698			1,508,000 287,917			2,158,000		147,281 28,514	208,439 23,005	96,571 1,278		
Dec. '58 Dec. '58	54.9	1.5		182.4 47.4	24	3	20	Blue Ridge Charleston and Savannah	2,126,539 801,615		250,000	1,916,515 706,365	195,266		2,134,092 1,099,536	51.9			********	-	-
Jan. '59	40.8 143.2	21.8			13	9	110	Charlotte and South Carolina, Cheraw and Darlington Greenville and Columbia	1,719,045 600,000 2,439,769		200	1,201,000 400,000 1,429,008	200,000		2,919,554	109.6 49.3 164.5	*******				
Aug. '58 July '58 Feb. '59	32.0							Kings Mountain Laurens North-Eastern	196,230 543,403 2,011,652	*		200,000 400,000 985,743	106,218		200,000 575,729 2,057,325	32.0		27,568	8,527 96,145	5	-
Dec. 760 July 758		106.0		41.9	62	59	790	South Carolina Spartanburg and Union Tennesses.					2,648,888					1,499,636	701,943	7	
Sep. '60 59	30.0		1.8	17.0	2	10	14	Central Southern (Tenn.) Edgefield and Kentucky	1,021,439 857,947 3,637,367	58,133		505,214 333,204 1,289,673	612,000	60,900	1,137,707	47.6 30.0 140.0	29,845	29,967 9,359 318,718	19,187 7,486 187,466		-
59 59	140.0 271.6	19.4	8.0 20.0 20.0	3.9	10	10 87 5	128 667 242	East Tennessee and Virginia . Memphis and Charleston	2,310,033 5,866,578 2,259,267		129,364	536,654	1,902,000 2,659,000	390,407 260,112	7,627,797				3 149,167		
59	100.0 59.0 47.4		30,6	55.8 40.1	7	5	119	East Tennessee and Georgia. East Tennessee and Virginia. Memphis and Charleston Memphis and Ohio Memphis and Tennessee Mississippi and Tennessee Mississippi Central and Tenn. McMinnville and Manchester. Nashville and Chattanocca	2,000,000 1,137,400 892,710	100,500		298,721 798,285 817,447	740,000 554,949	319,518		59.4 47.4		177,256 83,129	60,029 44,666		
Nov. '60	84.2	44.0	7.0		12 39	2 17			533,807 3,632,882	56,816		144,894 2,056,544	406,000	5,000		34.2 159,0	30,065	23,808 734,118	13,892 337,384	6	-
59 59	45.8 30.0		4.2 0.6	11.7	5	8	32		76,016	76,016		595,922 216,962			•••••••	45,8 30,0		127,958 1,248	87,243		
'58 '58	32 0 56 0		1	58.0 84.0				TEXAS, (all aided by State). Buffalo Bayou, Braz.& Col'r'do Falvest., Houst. & Henderson				*****				32,0 56,0	******			=	
May '60 '59	50.0 70.0 25.0		1.5 6.0 2	80.0	7	6	124	Houston and Brazoria	1,250,000 4,232,345	*		275-000 455,000	240,000 975,000	369,000	••••••••	50,0 70,0 25,0	102,200	32,670 282,846	196,568	=	
May, '61	28.0 90.7		8.6	100	8	8	183	Outhern Pacific	1,514,132	193,422	HIZ EL	1,280,400	800,000	60 589		28.0 90.7	118,219	183,750	92,683		8
Aug. '60 Aug. '60 Aug. '60	62.0		13.0 4.0 20.0	-	10	18 6 28	174	Rutland and Burlington	3,989,708 1,771,683 8,402,055	617,743		2,233,376 950,000 5,000,000			6,385,045 10,276,299	62,0	142,839	334,368 150,318 775,569	113,318 30,288 127,727	=	-
Aug. '60 Aug. '60	47.0 23.7	10.5	2.8		3	4	20 1	Vermont CentralVermont and CanadaVermont ValleyWestern Vermont	1,350,695 1,212,274 1,083,500	89,612		1,350,000 516,164 832,000	793,200		1,380,695	ope 23.7	r. by Vt. 47,950	Central 45,930 & Bost,	8,522 55,858	=	9
Aug. '59	41.8	8.9	10	22.1 -	9			VIRGINIA.	1,492,194 2,942,548	42,000 210,680	(1005),3.7	1,403,018 2,969,861	(2 1/25 2)	88,131	1,534,194		703,034	136,302	43,062		
Sep. '59 Sep. '59 1	77.8 79.2 103.5		4.8		8	16	75	Manassas Gap Norfolk and Petersburg Northwestern Virginia	2,006,873	122,156	*	1,500,124 468,605	590,610 5,719,229	155,161	9 months	79.2 103.5	47,702 345,427	54,121 248,004 450,427	16,332 loss 222,214	=	
Sep. '60 Sep. '59 Sep. '59 Sep. '60	122 3	10 1			19 14	17	131 H	Petersburg and Lynchburg	1,223,526	374,996		2,063,655 1,365,300 883,200	1,851,500 102,500	292,842 5,799	4,745,256 1,486,527	133.4 80.5		410,166 326,554	201,344 213,852		-
Sep. '59	140,5 75.1 22.2	2.7	12.0 - 4.5 - 8.1 -		28 11 10	10	196 F	Richmond and Danville Richm., Frederick & Potomac Richmond and Petersburg	3,726,037 1,985,579 1,222,523		52,800	1,981,197 1,041,880 835,750	643,960 204,808	75 908 96,828 26,853	6,753,655	78.6 43.5	159,981 1,058,054	560,904 279,945 163,753	282,328 145,385 79,585	7 6	576
Sep. '59 Jan. '60 Sep. '60	23.7 80.0		21.3	7.0	27	19	161 8 228 V	Richmond and York River Beaboard and Roanoke Firginia Central	704,840 1,469,246 4,952,753	20,554	1,200 33,948	657,812 844,200 8,162,754	472,811	52,929	1,639,648 4,832,929	195.0	12,542 280 968	240,446 634,081	121,053 359,130	7 5	4
Jun, '60 Sep. '59	204.7		10.6 2.5		39	27	374 V	Virginia and Tennessee Winchester and Potomac Wisconsin.	5,994,259 516,830	888,475 59,000	2,400	8,452,813 300,000	3,265,000	571,958	10,233,271	214,9 32,0	480,193 80,000	740,489 49,971	347,957 14,469	=	~
Dec. '59 Mar. '59 Dec. '58	199.8		2.0 1	21.0	8	10	A	Kenosha and Rockford	1,500,000	55,000	23,304	800,000 10,872,000 1,000,000	700,000 10,414,066 600,000		22,282,653 1,908,555		74,243	492,454 159,456	82,182	=	
Dec. '60	42.0 191.9	7777	28.3	27.8 85.0			N	Milwaukee and Horicon Milw kee and Prairie du Chien Milw., Watertown & Baraboo	919,757 7,500,000 514,238	:		1,101,200 4,944,000 345,861			7,500,000	42,0	10 mos,	60,066 883,186 121,401	439,943		ī
May, '61 - '58		-		38.8 55.0	8	7	321 F	Racine and Mississippi Visconsin Central	3,802,016 600,000	*	1140	2,705,720		1,085,328	5,692,471 operated	104.0	228,627 Fox Riv	220,850	68,438	_	-
July '59	158.5 81.0		2		26 16	24 17	841 E	CANADA. Buffalo and Lake Huron Montreal and Champlain	2,884,887	740,870	(400-02)	8,715,762	187,366	107,067	4,010,195	158,5 81,0	363,213 166,245	4.5		11/4	ī
Sep. '58	37.0 824.0 229.0	11.0 37.0		72.0	2 04 1	30 2	17 H	Brockville and Ottawa Frand Trunk Freat Western	6,651,084			15,603,128 14,054,908				48.0 761.0		1,069,219	4,000	6 3	35
'59 '59	24.0 95.0	1.6			17	20	52 I 337 N	Northern (O. S. & H.)								24.0 96.6 54.0	37,081 254,530 89,222				
_ '59 _ '69	25.0			30	4-	-	57 V	Ottawa and Prescott Welland New Brunswick.				4 487 076	- Big 6	V(100)	4 481 010	25.0	******	110.00	41.00		
Oot. '00 July,'61	60.0		120		12	18		Turopean & North American New Brunswick and Canada. Nova Scotta.	1,402,748	826,164 102,388	7759.75 2789.75	4,451,012 1,380,000	18,100	138,000	4,451,012 1,709,282	60,0	198,683	116,225 132,555	41,985 36,670		
'69	81.6	100		60,1 _	-	-	355	New Granada.	8,000,000		708,000	4,976,000	0.400.000	44.000	9,802,828	48.7		KKO 000	1,986,181		11:

		107431			
New York Stoc	k Es	tchai tek en	age.	Nov.	27.
Th.21 F	22. Ba				
PRDERAL STOCKS:— U. S. 5s, 1871.———————————————————————————————————	84	84	834		821
U. S. 58, 1865	874	87	93		****
U. S. 64, 1881, cou 934	934	934	934	934	93
U. S. 6s, 1867	****	****	****	****	97
U. S. 6s, 1868 Treas, 12 p. c. notes	****			****	
6 " 2 years				99g	
California 7s	814	814	81#	81‡	814
Hilinois Coupon bonds 824	82	****	****	****	
Indiana 6s	****	81	81	****	80
Louisiana 6s	****	75		75	75
Maryland 6s 82	82		814		
Minnesota 8s		401	-	411	441
Do. 188. to H.& St.J.R	48	424	42	41± 48	444
New York 6s, 1872 60		594	****	60	****
South Carolina 6s 934	93	93	91	91	91
Tennessee 6s, 1890 43			42	42	414
Virginia 6s	48	471	471	47	47
Buffalo & State Line Chicago, Burl. and Q. 624	601	624		****	
Chicago and Rock Isl. 554	62½ 54	537	54	60 52‡	53
Clev., Col. and Cin 98 Clev. and Pittsburg 124	984	****	984 121	****	99
Clev. and Toledo 35g Del., Lack. and West	35	341	341	33# 65	33
Galena and Chicago 721 Hudson River 382	71 à 38	704 364	71	70	70
	611	607	37± 60±	36 g 60 g	60
M. S. and N. I. guar'd, 37	37	484 854	49a 37a	49 36	37
M. S. and N. I 18	185	17\frac{1}{4}	18 20	18 19‡	18
Michigan Central (scrip) of Michigan Central	80				
New Jersey	65‡		****		
New Jersey New Jersey Central New York Central	794	77%	78	784	78
Erie 32	32 57	30 57	31 534	30 534	80 53
Erie Assessment Scrip-		12	****		-
N. York and Harlem. 128 N. Y. and H. "pref." . 32 Panama	12± 31	294		39	12 30
Panama	115 84%	1142	114 341	344	112 84
AILROAD BONDS :-			-		
Chic. and N.W. 1st M	****	70		8000	38
Phila, and Reading 348 ALLROAD BONDS:— Buff., N. Y. & Erie 1 M Chic. and N. W. 1st M 2d M 8. F	****		****	****	
Cl. & Tol. 8. F. 7 p. c. '85 772 Chi., Bur. and Q. 8 p. c. 934 Chi. and R. I. 1st M. '70 D.L. & W. 1M. 8p. c. '71-5 '2M. 8p. c. '81 Gal. and Ch. 1M. 8p. c. '65	934			77	
Chi, and R. I. 1st M. '70	204		93	934	93
2M.8p.c.'81					***
Gal.and Ch.1M.8p.e.'63 2M.8p.e.'75	****		99	98	98
Hann. & St. J. 1 M. 88		****	105		
Hudson R. 1 M.7p.c. '69 " 2M.7p.c. '60	****	****	100	****	
sink, fund	751	75	****	****	
L. Erie & Wab. 1 M. 73			88 88	****	87
L. Erie & Wab. 1 M 73	73				87
La Crosse & Mil. L. G Mil. and P. du C. 1st M			-45	****	***
Mich, Cen. S. F. 8 p.c. '82	95	****	92	****	90
Mich. Cen. S. F. 8 p.c. '82 '' conv. 8 p.c. '69 Mich. Southern 1st M	811	94	94 82		
2d M. A88		60	****		***
" 2d M. S. F. M.S.& N.I.1 M. S. F.	****	10.00	****		
" 2 M.8p.c. 77					***
Northern Ind. 1 M.					83
	-		****	****	***
N. J. Central 1st M.					92
N. J. Central 1st M N.Y. C.6p.c.certif.'88					
N.Y. C.6p.c.certif.88		-			
N.Y. C.6p.c.certif.88					
N. J. Central lat M. 2d M	103	881			***
N.Y. C.6p.c. certif. 88	103	881			
N. J. Central lat M. (2d M. (2	103	881			70
N.Y. C.6p.c. certif. 88	103	881			70
N.Y. C. 6p.c. certif. 88	103	881			70
M. J. Central 1st M. "2d M. N.Y. C.6p.o.certif.'88. "1 M. 7p.o.'64. N.Y. & E. 1 M. 7p.o.'67. "2 M. 7p.o.'79. "3 M. 7p.o.'88. "4 M. 7p.o.'88. "5 M. 7p.o.'88. "6 Onv. 7p.o.'62. "8 F. '75. "18 F. '75. "19 M. 7p.o.'73. "10 M. 7p.o.'73. "11 M. 7p.o.'73. "12 M. 7p.o.'64. "3 M. 7p.o.'64. "3 M. 7p.o.'64. "3 M. 7p.o.'64.	103	881			70
N. J. Central lat M. " 2d M. N.Y. C. 6p.c. certif. '83. " 1 M. 7 p.c. '64. " bonds 1870. N.Y. & E. 1 M. 7 p.c. '67. " 2 M. 7 p.c. '67. " 3 M. 7 p.c. '83. " 4 M. 7 p.c. '83. " 5 M. 7 p.c. '83. " 7 p.c. '71. " 8. F. '75. N.Y. & H.1 M. 7 p.c. '73. " 2 M. 7 p.c. '64.	103	881			70

The fo	llowing	are	the	closing	prices	in	the
London M						1	SHE

77 4. 179. 4. 7. 1684	84	to	75
United States 5s, 1874	14	64	46
Virginia 6s	130	20	26
Erie shares, ex assessment scrip	201	64	
Erie shares, 7 per cent. preference	40	-64	44
Erie shares, assessment scrip	14	4	2
Illinois Central 6s, 1876	76		78
Illinois Central 7s. 1875	79	- 66	80
Illinois Central \$100 shares, \$80 paid, dis	394	44	38
Illinois Central, all paid	584	46	88
Michigan Central 8s, Convertible, 1869	80	46	82
Michigan Central Sinking Fund 8s, 1882 - x.c.	84	64	86
Michigan South, and North. Indiana 7s, 1885.	65	66	76
New York Central 6s, 1883	81	64	. 82
New York Central 7s, 1864	90	64	9:
New York Central 7s, 1876	91	46	95
New York Central 7s, 1876	100	46	110
New York Central \$100 shares	69	46	7
New York and Erie 78, 1867		66	95
New I ork and Eric od most 1950		65	96
New York and Erie, 2d mort., 1859 x.c.	76	86	7
New York and Erie, 3d mort., '83, assented "		66	-
New York and Erie Bonds, 1862, '71, '75		44	-
New York and Erie shares, assented		46	100
Panama, 1st mortgage 7s, 1865	98		100
Panama, 2d mortgage 7s, 1872 x.c.	96	66	98
Pennsylvania Central 6s	85	66	8
Pennsylvania Central 2d mortgage	81	66	8
Pennsylvania Central \$50 3hares		46	3
Philadelphia and Reading \$50 shares	14	66.	1
to the second se			-01

American Railroad Journal.

Saturday, November 30, 1861.

Share and Money Market.

The share market the past week has been a very excited one, with a heavy decline, from which it has only partially recovered. The week commenced with an uneasy feeling on account of the Slidell and Mason affair. The excitement created by this had nearly subsided when the question of exchange suddenly assumed a very threatening aspect, exciting great apprehension lest the rise should be followed by a shipment of specie. The alarm is probably groundless, as the balance of trade appears still to be largely in favor of this country. In reference to this subject we have given an extract from the circular of Messrs. Samuel Hallett & Co., in which this whole matter is elaborately discussed. At the close of the week a considerable reaction had taken place, the market leaving off with a very buoyant feeling. Money is in greater abundance, the negotiation by the Banks of the \$50,000,000 20 year loan, having had no effect to put up rates. The traffic of the railways is very large, the weather continuing very fine for their operations, as well as for Lake and canal navigation. This is an important element in our foreign trade, as it enables us to accumulate vast stocks of grain at the seaports before winter sets in.

The Illinois Central Railroad Company gives notice to the holders of its stocks, registered on its books on the 15th of January next, that they will be entitled to canceled bonds scrip for five dollars upon each share of stock held by them, deliverable on the 1st of February next; and parties holding certificates are hereby notified to have the same registered in their own names on or before the said 15th day of January. Also that two additional coupons, payable July 1, 1862, and January 1, 1863, on the full paid stock of this company will be deliverable on presentation of certificates at this office, on or after the 1st day of December.

of December next.

Illinois Central Co. to store corn near Chicago, in elected to fill the vacancy.

cribs, for which purpose a whole section of land has been appropriated.

The Vermont and Canada Railroad Co. have declared a dividend of 4 per cent., payable December 2.

A decision has been rendered in the Supreme Court of this city, in the suit of Larned, assignee, etc., agt. Little, involving the legality of "calls," or privileges to call, for given amounts of stock. The suit was brought upon a call for 250 shares of Chicago and Rock Island, and was referred by the Court to a well known legal gentleman whose report is in favor of the plaintiff, the defense interposed by the defendant being that the transaction was void, as coming within the prohibition of betting and gaming (2 Revised Statutes, page

Nesquehoning Valley Railroad

We learn that the Nesquehoning Valley Railroad Company have just placed under contract the heavy sections of the grading, on their main road, and also on the branch road, leading toward the Mahonoy Coal Basin. It is the intention, we understand, to prosecute the work vigorously, so that by commencing the light sections early in the Spring, the whole line can be finished simultaneously. The early completion of this road is very important to the coal interests in the Mahanoy Basin, as affording the shortest and best route to market. The Girard coal lands, owned by the City of Philadelphia, so long unproductive, will on the completion of this work, be sought after by the miner, and no doubt will yield a handsome revenue to the city.

New Mode of Firing Cannon.

Applying Fuse to Projectiles.-This invention. patented by R. P. Parrott, of Cold Spring, New York, is more especially intended for the explosive projectiles of elongated form usually thrown from rifled cannon, and which move with the point forward; and it has for its principal object to make the same fuse serve either as a time fuse or a percussion fuse, as may be desired, the fuse employed being the paper fuse commonly used in shells, or of any other suitable kind, and the use of fulminates being dispensed with. The said invention consists in providing in the projectile, on each side of the hole, commonly known as the fuse hole, a hole for the reception of the fuse intersecting or meeting the first-named hole in a transverse direction. In connection with this transverse hole for the reception of the fuse, there is employed in the first-mentioned hole to effect the explosion of the projectile by percussion, a movable plug, plunger or other piece of metal suitably applied to break the fuse when the projectile strikes, so that the fire from the fuse. which is ignited by the fire of the gun, may communicate with the charge of the projectile; but this plug or piece may be omitted when the fuse is to be used as a time fuse.

Dubuque and Sloux City Railroad.

At a meeting of the Board of Directors of the Dubuque and Sioux City Railroad Company," The annual election for directors of the New held in New York on the 28th of October, 1861, York Central Railroad Company will be held at all the Directors being present either in person or the office of the company in Albany on the 11th by proxy, the resignation of Mr. Herman Gelpcke as President was tendered and accepted, and Ed-Extensive preparations are being made by the ward Stimson, of Dubuque, was unanimously

Cotton in Illinois

A letter from the West states that several farm ers in Southern Illinois have engaged in the business of cotton raising this season :

"One farmer in Christian County, on the line of the Illinois Central Railroad, planted ten acre this year, and although it was planted so late that but one picking could be had, yet the average product was 300 pounds per acre. This at pre-sent prices is doubly profitable to the raising of wheat or corn. This experiment has so encouraged the produce experimenter that he proposes to enter largely into cotton raising another season even to the extent of 2,000 acres. Other par ties in that and the neighboring counties are preparing to make this their principal business another year. Buildings and machinery are to be erected for ginning and baling. The Tennessee upland variety is raised. One resident, of 27 years' standing, says he has raised cotton every season without a single failure, which is more than can be said of wheat or corn."

Railroad Freights.

Our railroads are doing a great business in the freight line, taxing the rolling capacities of the roads to the utmost extent. On Monday 120 cars fully loaded with freight, came on the Grand Trunk road. The Kennebec and Portland Road is doing better than it has ever before done. The opening of the Androscoggin extension has thrown a large freight traffic on the K. & P. road. The York and Cumberland keeps all its cars fully em-The Androscoggin and Kennebec is also doing a large business.—Portland Argus.

New York Central Railroad.

"On Saturday last, the New York Central Rail road Company sent eastward, from this city, three hundred and seventy six cars, fully laden with freight. They were chiefly from Buffalo and Suspension Bridge, and were laden with flour and other rolling freight from the West, cattle, &c. Had these cars been wholly laden with flour, they would have taken 37,600 bbls. This was the largest day's work in freighting ever performed on the Central. Great as the number of cars was, the whole freight could have been put in twenty large-class canal boats, which eighty horses and one hundred men would have worked through from Buffalo to Albany in a week. The cars will make two round trips in that time. So it may be said that the freighting capacity of the Central Railroad is equal to eighty first-class canal boats. It is possible that we have estimated the number of trips by the cars too low, but we have been told that the same cars do not ordinarily make above two round trips per week."-Rochester Union.

Philadelphia, Wilmington and Baltimore Railroad.

A correspondent inquires about Wilmington, and whether it is advancing as an investment or as a temporary speculation? We reply that when the rebellion broke out, the Wilmington was doing such a business, under the management of Mr. Felton, as would have made it a regular 8 per cent. stock, after certain improvements and expenditures had been met. Since that time its earnings have increased very much, from the Government and other business which has been heaped upon it. In October alone the increase was \$60,000 over the earnings of October, 1860. November also bids fair to show an equally handsome gain. Whether the war be long or short Washington cannot but be a great military as well as political headquarters henceforward, and the Wilmington is therefore sure of a large business far surpassing that which it enjoyed before 1861, but which really netted 8 per cent. to the corpo ration. But the bare possibility that the rebels might occupy Washington and menace Baltimore has greatly depressed the Wilmington in the market, and it is only as these fears have been yanishing, that the stock has rapidly advanced.

We like to talk plainly, and see no reason why we should not do so. If our views are incorrect we should not do so. they will fall to the ground. We never stop for insinuations. We consider Wilmington worth par (\$50 per share) for the reasons that it is in good order, is well managed, has a moderate debt provided for by a sinking fund, and is earning 10 to 12 per cent. per annum. It may safely be assumed to pay \$4 per share (8 per cent.) hereafter, and in this view we cannot perceive why it should not sell for as much as the Northern that pays \$4 or the Eastern that pays \$4. Our plain inference is, that although Wilmington has advanced rapidly, it is yet very cheap, in view of its condition, management, profits and security from damage by treason. - Boston Post.

Rates of Foreign Exchange.

The rates of Foreign Exchange, as quoted by N. BRANDT, Broker, No. 39 Exchange-place, for the steamer of November 27, were as follows: London-60 days' sight..... 1091/4 per cent Paris-8 days' sight, per dollar...5f. 1334c. Amsterdam-60 days' sight, per guilder..... Hamburg—60 days' sight, per mare banco..... Frankfort-60 days' sight, per florin 3614c. 411/2c. Bremen-60 days' sight, per rix dollar

New Books Received.

MANUAL OF ELEMENTARY GEOMETRICAL Involving three dimensions .- By DRAWING. S. Edward Warren, C. E. Published by John Wiley, 56 Walker st., N. Y.

This work is designed for use in high schools, cademies, engineering schools, etc., and for the self-instruction of inventors, artizans, etc. In five divisions, viz: Elementary Projection; Details of construction in masonry, wood and metal; Rudimentary exercises in shades and shadows; Isometrical drawing; Elementary structural draw-

Philadelphia, Germantown and Norristown Railroad.

This company was chartered February 17, 1831, with authority to construct a railroad from Philadelphia to Norristown, 17.06 miles, and a branch to Germantown, 3.14 miles. Construction was commenced in the same year, and the road completed and opened to Germantown, June 6, 1832; to Manayunk, October 18, 1834; and to Norristown, August 15, 1835. The Chester Valley Railroad, extending from Bridgeport to Dowingtown, 211/2 miles, was operated under lease by this company from the date of its opening, September 12, 1853, to January 1, 1859—the latter charging 70 cents for each mile run by cars. The receipts from, and expenditures on account of operating this road are given in the annexed statement. The Chesnut Hill Railroad, extending from Germantown to Chesnut Hill, 4.16 miles, was completed in October, 1854, and has since been operated under a lease by this company—the former receiving as rent therefor, one half of the gross earnings from the traffic between Philadelphia and Chesnut Hill, until the earnings reach \$17,000 a year, and onefourth of all earnings above that amount. The receipts from and expenditures on account of opering this road are also given below.

The capital stock authorized was \$1,250,000, of which \$1,243,500 has been paid.

The funded debt of the company amounts to \$374,800, classified as follows: Consolidated Loan

6 per cent. bonds, \$274,800-dated 1848, and payable in 1865, with interest semi-annually Jan. 1, and July 1, in Philadelphia. Loan of 1852. \$100,000, payable in 1863, with interest semi-annually June 1, and Dec. 1, in Philadelphia.

. The following is a statement of receipts and expenditures for the years ending September 30:

\$168,810.60	\$285,640.93	\$300,010.45		\$545,486.03 \$322,812.22	\$298,279.43	\$301,069.87 \$266,655.08	\$301,069.87	30
8,558.47	4,934.00	6,097,37	6,172.95	5,551.09	6,205,51			State tax
99,347.00	109,863.00	121,427.50	128,053.00	120,997.00	90,763.75		70,971.05	Dividends on stock
21,627.00	20,403.00	21,744.00	22,128.00	21,921.00	22,239.00		22,284.00	Int on consolidated and other loans.
5,105.20	7,870.54	16,555.77	82,728.07	259,828.15	44,441.65	31,069,62	70.990.97	New engines, depots, station houses
826.84	8,542.41	2,722.86	:	4,286.54	7,719.16			Extraordinary expenses
5,234.00		6,536.69	5,998.50		5,291.78	6,177.79		Running C. H. Railroad
		8 5,351.63	16,695.58	1	18,682.29		*11,488.84	Running C. V. Railroad
\$133,117,08	\$131,705.07	\$119,572.14	\$111,641.1	\$111,230.92	\$106,036.35	\$113,126.50	101,058.72	Ordinary and incidental expenses \$
\$248,475.58	\$248,475.58	\$288,657.41	\$279,589.6	\$812,958.63	-	\$259,089.38	\$244,566.59	
10,410	1	12,430.01	9,898,04	10,786.30	10,128.46	8,061.12		" pass. & fre'ts C. H. R. R.
		4,820.20	18,867.80	19,063.80		_		" running C. V. R. R
4,824.70	4,234.66	3,968.59		4,271.47				" rents, sales, mater'ls,&c.
14,661.64	15,842.03	11,994.86				17,651.86		" coal from Reading R.R.
49,488		62,714.75	58,469.24		65,468.71		59,882.85	" freight
\$164,080.56		\$192,723.00	\$173,720.00			\$147.761.83	\$148.522.71	Receipts for nessengers

pany for t	he year endieg Septen	nber 30 :	
Receipts	s—	1860.	1861.
Balance fr	om previous year	\$59,654	\$54,602
Receipts f	rom passengers	169,550	164,030
312	freights	76,192	64,150
44	C. H. Railroad	17,859	15,470
	rents, etc	3,609	4,163
Bills paya	ble	24,824	5,966
Sundry re	ceipts	1,748	1,752
int. on sin	king fund investment.	414	220
Sinking fu	nd investment		6,435
Sale of sto	ck	20,000	*****
" loce	motive		3,000
Chesnut H	ill Railroad Co	11,058	10,824

\$384,908 \$880,612

	Disharroments	AMO
3,5	Disbursements— Repairs of road and bridges \$16,979	\$32,95
1	Running Chesnut Hill R. R 7,323	5,28
	Repairs of engines and cars 9,625	13,19
	Conducting transportation, etc 61,184	63,41
	Fuel, oil and waste 35,932	23,75
	Dividends on stock109,863	99,34
	Interest on loans 20,403	21,62
18	Interest, taxes, damages, etc 17,577	14,18
-	Depots, station houses, etc 7,971	12.38
	Chesnut Hili Railroad Company. 11,395	8,33
*11	Bills payable 25,054	6.00
	Cash 54,602	40,18
	Committee of the Commit	Jall an
(6)	\$384,908	\$330,613
	CONDENSED BALANCE SHEET, SEPT.	
	1860.	1861.
	Capital stock\$1,243,500 \$1	
	Consolidated loap	274,800 100,000
	Sinking fund	47,319
	Dividends 50,234	37,932
	Interest on bonds 1,446	975
	Contingent dividend acc't . 54,809	47,498
	State tax on dividends 4,934	4,852
	Chesnut Hill Railroad Co 790	3,276
	A1 771 100 A1	PEO 408
	\$1,771,100 \$1	
	Cost of road and bridges\$1,131,079 \$1	
	Real estate, depots, etc 311,864	326,718 236,289
	Engines and cars	25,200
	Cash 54,602	40,181
1		20,101
	\$1,771,100 \$1,	759,467
	Miles run Rec'ts per Cost per Pas	ssengers
		carried.
		861,764
		902,040
		131,385
9	1857161,124 2.20 62½ " 1, 1858 167,787 2.04 60 " 1,	269,725
	1858167,787 2.04 60 " 1, 1859234.064 2.27 54 " 1.	237,342 $584,165$
	1000, 201,001 2.21 01 1,	629,777
	1000	668,599
		000,000
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	MANAGEMENT CO.	24
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	80000000000000000000000000000000000000	08
		Gross Operating Net
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	780000000000000000000000000000000000000	19
	The cost and earnings of the road can	not ha
	given prior to 1844. The gross earnings	
	past 18 years have been \$3,255,952, the	
. 1	gate expenses, \$1,939,260, and the net ear	mings,

3, and

y Jan.

1852,

mi-an-

nd ex-

30 :

Receipts for

passengers....

1854. \$148,522.71

1855. \$147,761.

.83

\$170,142.81

-

1857.

\$173,720.00

\$192,723.00

1860. \$169,550.06

\$164,080.

.06

om 61. 602 030 150

470

163

966

220

435

824

612

gate expenses, \$1,939,260, and the net earnings, \$1,317,526. The dividends declared since 1851 ments on that account to \$915,490. The average cost of road and equipment has been \$1,177,769.

President-EDWARD C. DALE. Secretary and Treasurer-W. S. WILSON. Superintendent-H. K. SMITH.

The following statistics of the earnings of the Sacramento Valley R. R. for the last three months of this year—July, August and September— would indicate that railroad stock must be looking up. With such a promise of increased business, railroads must certainly pay in California. The following are the earnings of July, August and

Increase this year..... \$85,021 02

This shows a net increase of over fifty per cent, on the same time last year. The Central Railroad, connecting with this road at Folsom, will be fluished this month to Lincoln (twenty miles), and from thence to Marysville next season, and the railroad from Folsom to Auburn is now being graded, and will be finished by the 1st of April next. Both of these will be paying roads, and will add largely to the receipts of the Sacramento Valley Road. There is also a railroad in contemplation from Folsom to Placerville; surveys have been made, and it may be built next season, Railroads built for cash on any thoroughfare in this State, will pay handsome dividends to the stockholders; and now is the time to build them, when iron and labor are cheap.—Atla California,

Iron Bridge for the Illinois Central R. R.

Messrs. Kellogg & Co.'s Iron works in Detroit are constructing an iron suspension bridge 840 feet in length, for the Illinois Central R. R. track, across Cache River, five miles from Cairo. This bridge has three spans and four towers, uponwhich the whole weight of the bridge and whatever is on it, is made to rest. There are two of these bridges, the one called a "Through Bridge," and the other a "Deck Bridge." The train goes through the former, while it only goes over the latter, which is only used where the grade of the road is sufficiently high to admit of being built above high water mark. Kellogg & Co. are also building a deck bridge for the Galena and Chicago Union Railroad.

Railroad Earnings -- Monthly,

The Buffalo and State Line Road earned in October about \$112,000, at an expense of no more than \$42,000, leaving about 7½ per cent. net on 12 steamers, including new steamer the capital stock of \$2,000,000 for a single month. The net profit on the traffic of October, 1860, was \$59,000, as against \$70,000 the present season.

The following statement shows the business of the Philadelphia and Reading Railroad Company for the month of October, 1861, compared with Stock in North Atl. Steamship Co..

	that of 1860:	ŧ
	1861. 1860.	ı
1	Rec'd from coal \$197,343 50 \$267,457 06	ı
	" merch'dise 40,832 29 66.148 21	ŀ
	" " travel, etc. 88,033 12 85,851 17	
	Total\$276,208 91 \$368,956 44 Transportation, road- way, dumpage, re- newal fund, and all	
	charges 123,419 11 144,812 38	1
	Net profit for the m'th, \$152,789.80 \$224,144.06 Profit for the previous	-
-	10 months1,134,521 51 1,269,781 10	

have amounted to 84 per cent., and the disburse- Tot. profit for 11 mos. \$1,287,311 31 \$1,493,925 16 The loss of revenue the past month from coal as compared with corresponding time last year is \$70,113, and from merchandise, \$25,316; the \$70,113, and from merchandise, \$25,316; the From the surplus of Nov. 1, a quarterly dividend travel showing an increase of \$3,000. The expenses were lessened \$21,392. Net loss for the payable Nov. 13.

Railroads in California. | month, \$71,833, and for the 11 month of the fiscal year, \$206,614.

> Railroad Earnings -- Weekly. The earnings of the Cleveland and Toledo Railroad for the 3d week in November, 1861,

Canada for the week ending Nov. 22, 1861, was

 Passenger
 \$17,177 48

 Freight and live stock
 26,859 59

 Mails and sundries
 2,068 99

Decrease \$2,590 32 The earnings of the Galena and Chicago Railroad the 3d week in Nov., 1861, were ... \$34,919 Do., 1860 36,841

Increase \$4,064 36 The receipts of the Grand Trunk Railway of

Increase in 1861 \$11,743 03 Total traffic from July 1st, 1861 ... \$1,416,756 11 Corresponding period previous year. 1,372,198 72

Increase \$44,557 39

Pacific Mail Steamship Company.

The quarterly statement of this company shows the following result:

STATEMENT OF THE PACIFIC MAIL STEAMSHIP COM-PANY, Nov. 1, 1861.

Assets. Cash on hand, loans and investm'ts. \$1,390,038 58 31,972 tons coal on hand and in Cambridge an transitu, on which there has been 882,025 55

Constitution. 1,711,337 98 67,117 00 251,534 62 81,000 00 Storeships, iron boats and scows... Real estate Machinery at Benecia Outfits and supplies in the hands of agents, and in transitu 147,932 14 221,666 65 20,755 68 Due from agents and pursers

Total. \$4,273,408 20

Liabilities. Capital stock \$4,000,000 00

...\$467,891 24 Charge sinking fund de-

preciation of steamers & real estate (Ben'a). 236, 960 01

Surplus Nov. 1...... \$230,481 23

Total \$4,278,408 20

658

03

AMERICAN RAILROAD BOND LIST.

signifies that the road is in the hands of receivers. (†) that the company is in default in its interest. "S. F.," Sinking Fund. "var.," that the bonds fall due at different periods

45	Description,	Amount,	Interest.	Due.	Price.	Description.	Amount	Interest,	Due.	Price.	Description,	Amount	Interest.	Due.	Price.
11	Alabama and Florida :	4000 000	T	111	T	Cincinn., Hamilton and Dayton :	4400000	-	-	1354	Great Western, Ill. :	41 041 000	-	m-U	
	Mortgage	\$300,000 150,000				1st Mortgage			1867 1880	100 86	1st Mortgage (W. Div. 100 m.). 1st M. (E.D. 84 m.), 2d M. (W.D.)	1,350,000	10	*****	****
374	Alabama and Miss, Rivers:	PALE C		Alamana .	110	2d Mortgage *Cincinn, Wilm, and Zanesville: 1st Mortgage			-2	1300	Old Sang and More Pailmand	41 000	1		****
112	State (Ala.) Loan	123,171 109,500	7	1001 10		1st Mortgage	1,300,000 574,000	7	1809		2d Mortgage Chattel (Equipment) Mortgage Hannibal and St. Joseph: Misson State Loss, (Lat Lien)	323,000 374,426			****
1	Alahama and Tenn, Rivers:		in	MARCH S		3d Mortgage	158,000	7			Hannibal and St. Joseph :	0.2/220			
ā 1	1st Mortgage convertible	833,000 225,705	7 8			Tunnel Right	250,500	7			Missouli State Loan (1st Littl).	5,000,000		1881	30 26
12. 1	2d Mortgage	or tourse	1951	MIST		Cleveland and Mahoning:	1,000,000				Land Security	1.360,000		1883	****
	1st Mortgage Albany and West Stockbridge :	500,000	7	1867		1st Mortgage		1			Mortgage (not convertible)	1,200,000	7	1889	****
N .	Albana (Mr. M.)	1,000,000	6	66-76		2d Mortgage	469,000 344,100	8			Harrisburg and Lancaster : New Dollar Bonds	661,000	6	1883	93
3 5	Androscoggin and Kennebec:	17 DATE	100	10	La maria	Clev., Painesville and Ashtabula:	100		min.		Hartford and New Haven :			MANA A	
	Million Dollar Loan	468,600	6		70	1st Mortgage	564,000 303,000		1861 1862	99	1st Mortgage	927,000	6	1873	99
	\$1,100,000 Loan	536,100 710,000	6			2d Mortgage	500,000	7	1874	****	1st Mortgage Houston and Texas Central :	170,000	0 6	1877	
17			1	1866	1 115	Convertible Scrip	800,000	7	1880	****	Houston and Texas Central:	030.000		1	
	Dollar Bonds (Coupon) Sterling Bonds (Coupon) City of Portland Loan (Coup.)	484,000			97	Cleveland and Pitfaburg: 1st Mortgage (Main Line) 2d Mort, (M. L.) or 1st Extension 3d Mort, (M. L.) or 2d Extension 4th Mort, (M. L.) or 3d Extension Clev., Columbus and Cln.: 1st Mortgage, Coupon Cleveland and Toledo Junction 1st Mortgage Lat Div	800,000	7	1860	78	State (1st Lien) Loan Mortgage	210,000 125,000		1866	794
	City of Portland Loan (Coup.)	1,500,000	6			2d Mort. (M. L.) or 1st Extension	1,188,000	7	1873	64	Hudson River :	100		11.12	1
1	Baltimore and Ohio : Maryland Sterling	3,000,000	5	1838		3d Mort. (M. L.) or 2d Extension	1,165,000 1,154,000	7	1875	****	1st Mortgage	2,000,000		1860	100
	Mortgage Coupon	2,500,000	6	1885	67	Clev., Columbus and Cin. :	2,202,000				3d Mortgage	1,840,000		1875	71
		700,000			68	1st Mortgage, Coupon	509,000	7	'64'90		Convertible	1,002,000	0 7	1867	66
	# # #	1,128,500			71 82	Junction 1st Mortgage 1st Div	359,000	7	1867	65	Illino s Central : Optional Right Scrip	38,000	0 7	1868	62
h	male Otto Loan	5,000,000	0 6			Junction 1st Mortgage 1st Div. Junction 1st Mortgage 2d Div.	263,000	7	1872	65	Construction	12,885,00	0 7	1875	8
	Reliefontaine and Ind. (1 Jan. '00):	791,00	0 7	1866	65	Junction 2d Mortgage	265,000 521,000		1862 1863	75	Construction Debentures	4,115,00		1875	8
	1st Mortgage convertible 2d Mortgage	157,00	0 7			Tol., Nor. and Clev. 1st Mort Tol., Nor. and Clev. 2d Mort	293,300	7	1863	75	Indiana Central :	1000			-
0	Relvidere Delaware:	1 000 00		1077		Junction Income	44,500	7	1862	75	1st Mortgage (convertible)				6
	1st Mort, (guar. C, and A.)	1,000,00				C. and T. Income Mortgage C. and T. Income (convertible) C. and T. Income (convertible)	126,500 300,000		1863 1864	10	2d Mortgage	284,50 281,50	0 10		8
	ed Mortgage (do.)	581,00				C. and T. Income (convertible)	296,000	7	1864		Indianapolis and Cincinnati:				
	Black River and Utica:	870,00	0 7	1869		C. and T. Dividend (convert.)	158,610 42,000		1865	75	1st Mortgage	400,00			8 7
	1st Mortgage Boston, Concord and Montreal:	310,00	1.			C. and T. Dividend (convert.) C. and T. Income (convertible) C. and T. (S. F.) Mortgage Columbus and Xenia:	1,173,000			27	Real Estate Mortgage	200,00		1858	6
	1 of MOPLOROR	200,00				Columbus and Xenia:	ONO POO				Ind., Pittsb. and Cley. (1 Jan. '60)	2			
4	2d Mortgage Coupons	300,00 150,00			***	Dividend (due 1860, '61, '62, '66) Connecticut River:	272,700		var.	92	1st Mortgage	650,50		1870	
Ġ.	4th Mortgage Coupons	200,00	0 7			Mortgage	250,000	6	1878		Jeffersonville:				-
	4th Mortgage Coupons	200,00	0 6			Connectic't and Passump.Rivers :	800,000				1st Mortgage	289,00			7
		440,00	0 6	1873		1st Mortgage	800,000				2d Mortgage* *Kennebec and Fortland :	392,00	7	1873	Ι.
	Mortgage Boston and Worcester:	100.00		1860		1st Mortgage	116,500				1st Mortgage (City and Town)	. 800,00			
	Mortgage (plain)	100,00				Dayton and Michigan (1 Ap. '60):	97,000				2d Mortgage	250.00		1861	
(B)	Buffalo and State Line:	11 251	111	mad T		1st Mortgage	300,000	8			*Kentucky Centr.(Cov.and Lex.)	:			1
	1-4 Mortgage	200,00		7 1866 7 var.	95	2d Mortgage	2,212,000	8			1st Mortgage	160,00 260,00			-
	Income (\$ in '59, \$ in '62)	200,00	0 7	7 1864		1st Mortgage	300,000	7		50	2d Mortgage (convertible)	. 1,000,00			1
	Georgial Eric and North-East	149,00	0 7	7		2d Mortgage		7			3d Mortgage	600.00	10 7		
	Burlington and Missouri : 1st Mort, on 1st Division	590,00	0 -		-	Delaware : 1st Mortgage	500,000			80	Guarantied by Covington Cincinnati (exchanged)	100,00	00 6		
	Cairo and Fulton (Mo.):					Guarantied	65,000)			Keokuk, Ft. D. Moines and Minn	.:			1
	State (Mo.) Loan	650,00	00	6 78-7		State Loan				-	City of Keokuk, 20 years City of Keokuk, (special tax).	150.00	00 8	t	-
	Oamden and Amboy : Mortgage	367,00	00	6 1864	97	1st Mortgage	900,000)	- 1871	97	Lee County, 20 years Keokuk, Mt. Pleas't and Muscat	150,00	00 8		-
66	Mort, (chgd from Sterl'g)	888,00	00	5 1864 6 1849	97	1st Mortgage (E. Extension)	1,500,000		- 1875	97	Keokuk, Mt. Pleas't and Muscat	350.00	00 6	1-	
	Mortgage	1,700,00		6 1875	844	2d Mortgage Income (due 1862, '65 and '67)	2,600,000 265,416	3	- Var.	88	Lee County	200,00			1
80	Sterling (£210,000)	1,008,00	00	5 1864		Detroit and Milwaukee :				1	Henry and Louisa Company's	- 50,00			
QE)	Sterling (£210,000)	1,080,00 2,500,00		6 1864 6 1887		lst Mortgage (convertible)	1,000,000	0 8	1875		Lehigh Valley:	1,509,00	00		1
(12)	*Oatawissa:		400	11 - 1-		od Mortgage (convertible)	750,000	0 10	1863		La Crosse and Milwaukee :		1		
	1st Mortgage	1,500,0	00	7 1865	32	4th Mortgage (G. W. R. R.) Dubuque and Pacific:	500,000	0 8			1st Mortgage (Eastern Div.)	903,0			
	Cayuga and Susquehanna:	300,00	00	7 1865	1	New Construction	800,000	0	1		2d Mortgage (Eastern Div.) 1st Land Grant (Western Div	1,000,0	00		
Ы	Central of Georgia:	TO BE DO		A 130 K	-	Dubuque Western :	inut of w		111		2d Land Grant (Western Div	353,6	00		
90	Mortgage	86,0	57	7 1863	****	Lastern (Mass.):	344,000	0			3d Mortgage (whole road) Farm Mortgage	1,700,0	00		
	1st Mortgage	1,400,0	00	7 165-7		Income (due \$75,000 annually).	300,000	0 6			Unsecured Bonds	1,785,0	00		
00	1st Mortgage 2d Mortgage	600,0	00	7 1875	102	2d Mortgage (convertible) 3d Mortgage (convertible)	710,000		1874		Lexington and Frankfort:	130,0	00		
94	Central Ohio:	450,0	00	7 1861	62	18tM.(State)\$75,000 a y'r after '6	500,000	0 6	var.	101	Mortgage, due 1864, '69 and '74 Little Miami :	100,0			1
	1st Morte	800,0	00	7 1864	43	East Tennessee and Georgia :	A Company				Mortgage (Coupon)	1,300,0	00	1883	
	Od Mortgaga	_ 000,0	00	7 1865 7 1885	53	State, 1st Mortgage Endorsed by State of Tennesse	970,000 150,000	0			Long Island :	500,0	00	1870	
	3d Mortgage (S. F.)	1,365,8	00	7 1876		Mortgage (ordinary) East Tennessee and Virginia :					1st Mortgage	175,0		1890	
	Charleston and Savannah:	510,0	00	6		East Tennessee and Virginia:	1,602,00	0			Louisville and Frankfort : Louisville Loan	174,0	000	1 -	
	1st Mortgage (endorsed) 2d Mortgage			7		State, 1st Lien Endorsed by State of Tenness.	200,00	0			1st Mortgage	248,0			
	Oheshire:	Cale .	00	7		lst Mortgage (after State) Redeemable in Stock	100,00				Louisville and Nashville :	900.0	100		
	Mort. (1800, '63, '75 and '77) Chicago, Burlington & Quincy:	786,4	00	7 var.	-000	Eaton and Hamilton:		1	*****		State [Tenn.], 1st Lien 1st Mortgage	2,000,0		7	
	Consolidated 1st Mort. (S. F.).	2,172,0	00	8 1888	93	1st Mortgage	757,78	4	var.		1st Mortgage Lebanon Branch 1st Mortgag	ge 400,0	100	7 var.	
	Consolidated 2d Mort. (S. F.) . Chic, and Aur. 1st Mort	813,0	00	8 1890 7 1867	93	Exchanged for Buff, and St. L.	149,00	0		1-1	Memphis Branch 1st Mortga McMinnville and Manchester:	ge 500,0	UU	var.	1
	Oh, and Aur. 2d M. (8.F.)	303,0	00	7 1869		Florida :-	-				State [Tenn.]	872,0		6	
	Cent. Mil. Tr. 1st Mort.	892,0	00	7 1864 8 1868		Florida:— Internal Improvement (State) Free Land, 2d Mortgage Florida and Alabama:	1,655,00				Mortgage	10,0		6	
	Ohicago, Alton and St. Louis:	240,0	~	0 1000		Florida and Alabama :	Lingolog		0 1001		Madison and Indianapolis:	10,0		1.133	-
	1st Mortgage			1	-	Internal Improvement (State)	-		7 1891		Mortgage	600,0	000	7 1861	1
8	2d Mortgage					Internal Improvement (State) Free Land, 2d Mortgage Florida, Atlantic and Gulf Centr			8 1891	-	*Marietta and Cincinnati : 1st Mortgage [convertible]	2,500,0	000	7† 1868	
7	Chicago and Milwaukee :				-	Internal Improvement (State)	- 300,00	00	7 1891		2d Mortgage	2,000,0	000	71	
0	1st Mortgage (convertible)		00	7 1874 7 1868	70	Internal Improvement (State) Free Land, 2d Mortgage Fox River Valley	200,00	10	8 1891		8d Mortgage	1,500,0	000	71	
17	Real Estate	188,8	04	7 1868		lat Mortgage	400,00	10	1	-	Domestic	928,6		1500	82
	Ist Mortgage Chicago and Northwestern :	2,000,0	00	7 1870	93	2d Mortgage	180,00			-	Memphis and Charleston :	Thing.	336	Cals. P.	
		THE RESERVE OF THE PARTY OF THE		40.0	4	Li Halana and Chicago Ilnion		- 1	1	1	State [Tenn.] Loan	1,100,0	JUU.	6 1880	
	Chicago and Northwestern: Sinking Fund Preferred	1,250,0	000	7	- 82	1st Mortgage (3d Div) Clonno	422,00 1,571,00	10	7 69_1	38 98	1st Mortgage			7	

AMERICAN RAILROAD BOND LIST.

9) signifies that the road is in the hands of receivers. (†) that the company is in default in its interest. "S. F.," Sinking Fund. "var." that the bonds fall due at different period

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Description.	Amount	Interest	Due.	Price,	Description.	Amount	Interest	Due.	Prive.	Description.	Amount	Interest	Due.	Price.
emphis and Ohio :	118811		muf ji	4	N. York, Providence and Boston:	e i Jinu.		HVII.	21	Racine and Mississippi:	\$680,000	8	v. turn	620
State [Tenn.] Loan	1,340,000	6		****	North Carolina	\$331,000	6		~===	1st Mortgage (Eastern Division)	757,000	8		
1st Mortgage Sterling	467,489	6	1872	90	North Carolina: State Loan	2,000,000		*****		1st Mortgage (West'rn Division) Raleigh and Gaston :	100,000	1.7	1862	CI
lat Mortgage St'g (convertible)	500,000 250,000		1869 1860	94 96	State Loan	1,000,000	6			Coupon	100,000	100	17702.4	-
1st Mortgage (convert.) Dollar	2,598,000		1869	94	North-Eastern (S. C.): 1st Mortgage	700,000		*****		1st Mortgage	*****	7	1863	-
1st Mortgage (S. F.), convertible ich. Southern and N'n Indiana :	4,153,000		1882	90	2d Mortgage	224,500				Richmond and Danville:	600,000	6	var.	-
Michigan Southern, 1st	991,000	7	1860	82	Real Estate Northern Central :	35,910				State (Va.) Loan (34 years) Guarantied by State	200,000		1875	-
Northern Indiana, 1st	985,000		1861	83	Balt, and Susq. R. R. (Coupons)	150,000	6	1866		Mortgage (Coupon)	250,000		1859	-
Erie and Kalamazoo	800,000	7	1862		Md. State Loan (B. and Susq.) -	150,000	6	1870		Mortgage (Coupon)	150,000		1900	
Michigan Southern, conv Northern Indiana, conv	67,000 123,000	7	1863 1863	90 81	York and Cumberland 1st Mort, York and Cumberland 2d Mort,	175,000 25,000		1871	1001	Sterling (£87,000)	324,006	6	1860	
Jackson Branch	130,000		1863	88	York and C. guar, by Baltimore	500,000	6	1877		Sterling (£67,000)	150,000	100	1000	1
Goshen Air Line	1,168,000		1868	804	N. C. Contract	292,300		1875 1885	454	*Rutland and Burlington:	159,000	***	1875	
Detroit and Toledo 1st General Mortgage (S. F.)	611,000 2,850,000		1876 1885	70	Northern (Ogdensburg):	2,086,500	0	1000	408	1st Mortgage	1,800,000		1868	-
2d General Mortgage	2,465,000		1877	72	1st Mortgage	1,494,000		1859		1st Mortgage	937,500		1863	-
ilwaukee and Beloit:		1		201	2d Mortgage	3,077,000	71	1861		3d Mortgage	435,060	7	1863	-
lst Mortgageilwaukee and Chicago:	630,000	8	*****		North Missouri : State Loan (30 years)	4,350,000	6			I AL MOPLONGO	400,000	10	1875	1
1st Mortgage	400,000	8		Afri	North Pennsylvania:			-		2d Mcrtgage	829,000	10	1881	-
2d Mortgage	200,000	7			Mortgage	2,500,000	6	1875	54	Sandusky, Dayton and Cincinnati:	125,000	10	1866	1
dilwaukee and Horicon:	420,000	8	Sit		Chattel Mortgage	350,000	10	****	70	Mortgage	997,000		1866	-
1st Mortgage 2d Mortgage	600,000		*****		Mortgage (due 1860, '64 and '74)	219,500		var		Mortgage	1,000,000	7	1875	-
2d Mortgageilwaukee and Prairie du Chien :	rend to				Mortgage (due 1860, '64 and '74) Norwich and Worcester:	1000	1	14-BH	32	Mortgage	1,290,000	7	1866	
1st Mortgage (Conpon)ississippi Central:	2,556,000	7	1891	81	Mass. State Loan	400,000		1877 1860		1st Mortgage	1,200,000	11 1	1000	-
let Mortgage	1,007,363	7			Mortgage Ohio and Mississippi (O. and Ind.):	205,800	1	707.50		1st Mortgage	250,000		1858	-
lississippi Central and Tenn.: State (Tenn.) Loan	and the		-		1st Mortgage	2,193,500		1858		I IME MOTEGAGE (R. and W. Rr.)	100,000	7.1	1856	
State (Tenn.) Loan	529,000	6		****	2d Mortgage	316,995		1858	177	Beaboard and Roanoke:	300,000	7	1860	
lississippi and Missouri: 1st Mortgage (convertible)	1,000,000	7			Construction	4,637,920 3,591,185		1858	17	1st Mortgage	75,000	7	1870	-
2d Mortgage (S. F.)	400,000	8	*****		Orange and Alexandria:	A CONTRACTOR	10	10, 10	18	3d Mortgage	60,000	7	1856	
Oskaloosa Division	1,425,000				1st Mortgage	400,000		1866		South Carolina:	187,000	5	1868	
Land Grant	7,000,000	17			2d Mortgage or 1st Extension 2d Extension Mortgage	1,200,000		1875 1873		State Loan	183,333	6	1863	-
Tennessee State Loan	98,000	6	1885		Pacific (Mo.)			-		Sterling	2,000,000		1866	-
Mississippi State Loan	202,799	6	-		State (Mo.) Loan State Loan (S. W. Branch)	7,000,000			****	Sterling	500,000	1150	50 6	13
let Mortgagelobile and Ohio:	171,000	7	1876		State Loan (S. W. Branch)	2,800,000				1st Mortgage	000,000	***		
City (Mobile) Tax Loan	400,000	6			Construction	4,500,000	6	*****	****	South-Western (Ga.):	631,000		1875	
Tennessee State Loan	674,860				1st Mortgage Sterling	1,250,000		1865	100	1st Mortgage Springfield, Mt. Vern, and Pittab.:	#00.000	o.I	Lang.	
Alabama State Loan	389,410	6		****	2d Mortgage Sterling	1,216,000	7	1872			500,000 460,000			
Income Sterling	1,508,070 878,085		1883		Pennsylvania: 1st Mortgage (convertible)	4,905,000	6	1888	934	2d Mortgage Steubeny, and Ind. (P. C. and C.):				
Mississippi State Loan	200,970		1000		2d Mortgage	2,319,000	6	1875	84	I INL MOPLOSGE	1,500,000		1870	
ontgomery and West Point:					2d Mortgage Sterling	1,957,440		1875		2d Mortgage	900,000	7	1865	-
Alabama State Loan	122,622 850,000		*****		State Works Bonds Pennsylvania Coal Company:	7,200,000	5		78	lat Mortgage	2,000,000	71	Dibits	15
Mortgage (due 1860, '63 and '65). Mortgage	450,000	8	var. 1866		1st Mortgage	600,000	7	1861		2d Mortgage				
uscogee:	1000000	15		-	Penobscot and Kennebec:	malu a	1			II ou Mortgage (Income)	1,535,000	101		
1st Mortgage ashville and Chattanooga :	249,000	7			Bangor City 1st Mortg. (Coupon)	780,000		1876		St. Louis and Iron Mountain:	2,501,000	100	Maria	
Mortgage (State endorsed)	1,500,000				2d Mortgage (Coupon)	268,800 156,600				State (Mo.) Aid	500,000			
Chat, and Clev. Subsc. (endors.)					3d Mortgage (Coupon) Peoria and Oquawka:				1	St. Louis County Subscription .	1,000,000			
New Albany and Salem : Crawfordsville	175,000		1		1st Mortg. (W.Ext.) convertible. 1st Mortg. (E. Ext.) convertible.	500,000		1862 1873	****	Sunbury and Erie	1,000,000	7	1877	1
lst Mortgage	500,000	10			Petersburg:	500,000	0	2010		Mortgage	7,000,000		75-78	3
let Mortgage	2,235,000	6			Mortgage (due 1863 to 1872)	103,00	0 7	var.	-	light according to the state of	1 400 000		Maria a	1
N. Hav., N. Lond, and Ston'gton:					Petersb'g and Lynchb'g (S. Side): State (Va.) Loan (S. F.)	800,000	7		100	1st Mortgage Coupon	1,400,000	1	1876	-
Mortgage	450,000 200,000				1st Mortgage (1859-70-75)	365,00		var.		Terre Haute, Alton and St. Louis 1st Mortgage (convertible)	1,000,000	71	162-79	2 .
Extension	100,000				3d Mortgage (1862-'70-'72) Special Mortgage (1865-'68)	378,00	0 6	var.		2d Mortgage (convertible)	2,000,000	71	168-170	0 1
New Haven and Northampton:	F00.000		1000		Special Mortgage (1865-'68)	175,00	0 6	var.		1st Mortgage (Bel. and Ill.)	617,000 494,000	7	1873	-
lst Mortgage	500,000		- 1900	****	Last Mortgage (1861 to 1869) Phila., Germant'n and Norrist'n:	133,50	10			2d Mortgage (Bel, and Ill.) 8d Mortgage (Bel, and Ill.)	503,000	10	1874	-
Company's (various)	711,000	0	- var.	102	Consolidated Loan	274,80			-	Tennessee and Alabama:	HOLD BY	1	Miles	-
New London, Willim, and Palmer	10,410	1		PP)	Loan of 1842	100,00	0	*****	-	State (Tenn.) Loan	814,000			-
1st Mortgage	300,000	7 6	1		Philadelphia and Reading:	436.80	0 5	1867	913	Terre Haute and Richmond: 1st Mortgage (convertible	230,000	7	1866	1
N. Orl'ns, Jackson and Gt. North.	: 000,000		1	1	Mortgage (S. F.)	192,00	0 5	1880	88	Toledo, Wabash and Western: 1st M. (L. Er., Wab. and St. Louis) 2d M. (L. Er., Wab. and St. Louis) 8d M. (L. Er., Wab. and St. Louis)	0.555	1		1
N. Orl'ns, Jackson and Gt. North. State (Miss.) Loan	255,000		263 42	8	Mortgage (S. F.)	12.672.30	0 6	1880 1870	92	1st M. (L.Er., Wab, and St. Louis)	2,500,000	7	1865	
1st Mortgage Coupon	2,665,000	8	1886		Mortgage	3,103,60	0 6		74 734	3d M. (L. Er. Wab and St. Louis)	1,000,000	71	1891	1
Louisiana State Loan	641,000	6			Lebanon Valley R. R. (convert	1,500,00			73	III The protektive (Loiedo wild III')"	900,000	7	1865	17
New Orleans City Subscription	1,500,000	0 5			Phila., Wilmington and Baltimore	List		1.15	0	Vermont Central:	1 9 90	R.C.	17.73744	1
New Orleans City Subscription lst Mortgage (S. F.)	566,000	8	1889		Mortgage Loan	2,300,00		1884 1868		1st Mortgage Coupon	2,000,000 1,135,000	7	1867	1
Albany Loan Alb and Sebidy	1 197 000	0 5	1864	92	Improvement Pittsburg and Connellsville:	WEST L	"	1177		2d Mortgage Coupon	200		40574	1
State Loan—Sch'dy and Troy State Loan—Rochester and Syr State Loan—Roch., L. and N. F	100,000	0 6	1867	91	Pittsburg Subscription	500,00			-	Mort, guarantied by State of Va.	100,000	6	1880	1
State Loan-Rochester and Syr	77,38	2 5	1861		Alleghany Co.	750,00				Mortgage (coupons)	198,000 926,000	6	1872	1
State Loan—Roch., L. and N. F. Stock Subscription	785 00	0 7	1861 1883	1004	Connellsville " Mc'Keesport "	100.00	0			Mortgage, (coupons)	Action 1	3	1	1
Fremium Consolidated Stock	7.745.00	0 6	1883	91	Baltimore Loan	1,000,00	0	_ 1886		State (Va.) Loan	1,000,000	6	1887	1.
Real Estate	7,745,000	0 0	1883	91			0	1890	-	1st Mortgage 2d or Enlarged Mortgage	500,000	6	1872	1
New York and Erie:	3,000,000	0 7	1864	92	Cumberland Subscription lat Mortgage (Turtle Cr. Div.) Pittsb'g, Ft. Wayne and Chicago: lat Mortgage (O. and P.) 2d Mortgage (O. and P.) Income (O. and P.) Bridge (O. and P.) lat Mortgage (O. and I.) 2d Mortgage (O. and I.) lat Mortgage (F. W. and Chic.) Real Estate (F. W. and Chic.) Pittsburg and Steubenville: Pittsburg and Steubenville:	400,00	0 6	1000	-	2d or Enlarged Mortgage	1,000,000	0	1884	1
1st Mortgage	3,000,000	0 7	1867	103	1st Mortgage (O. and P.)	1,000,00	0 7	1866		Warren (N. J.):	Knr - g lu	10	Tobal.	1
2d Mortgage	4,000,00	0 7	1864	101	2d Mortgage (O. and P.)	750,00	0 7	1866		1st Mortgage	568,500	7	1875	-
Ath Mortgage (convertible)	6,000,00	0 7		89	Income (O. and P.)	1,938,00	0 7	1873	62	Watertown and Rome:	800,000	1	1000	1
4th Mortgage (convertible) 5th Mortgage	3,729,00 1,277,00	0 7		77	1st Mortgage (O. and T.)	207,00	0 7		1 797	Mortgage (new bonds) Western (Mass.):	LETT 9 - DIZ	1	The Marie	1:
Unsecured (convertible)	2.618.00	0 7	1871	60	2d Mortgage (O, and L)	380,00	0 7	1873		Sterling (£899,900)	4,319,52	0 5	168-7	1
Unsecured (convertible)	2.443.00	0 7	1862	55	1st Mortgage (F. W. and Chic.)	1,250,00	0 7	1878		Williamsport and Elmira	7.55			ď
Sinking Fund	2,193,00	0 7	1875	86	Mortgage Consolidated Commit	498,00 2,064,00		1874 1887		1st Mortgage	1,000,000	1	1890	1
1st Mortgage	2,950,00	0 7	1873	96	Pittsburg and Steubenville:	2,002,00		1	****	1st Mortgage	596,000	0 7	1866	1
2U MOTTORGO	1 1 (MM) (M)	0 7	1864	92	Mortgage	800,00	10	1865		2d Mortgage	200,000	0 7	1872	1.
ou Mortgage	862,30	0 7	1867	77	Potedam and Watertown		1.	1 104 11	4 00	Wilmington and Weldon	1241111	100	REPEREN	1
New York and New Haven: Plain Bonds, Coupon		0 .	1866	94	1st MortgageQuincy and Chicago:	800,00	0	1 64-17		Mortgage, payable in England. Sterling, issued in 1858	144 50	0 6	1868	1
Mortgage Bonds, Coupon	978,00	0			1st Mortgage		la.	. 1878	1 4	Company's, endorsed by State	340,00	ما ه	1873	187

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(From the C., R. and A. Journal.) Suspension Girder Bridges Traffic.

(Continued from p. 823.)

For a girder of a given uniform section, the wave of simple deflection may be determined by the ordinary rules. As the resistance of the gird-er to vertical displacements will be far more powerful than that of the chain, the displacements being very small compared with the versed sine of the curve of the chains, no serious amount of error is involved in assuming that the form of this wave depends absolutely on the girder, without reference to the chains.

We can therefore at once give an algebraical expression for z_1 , the ordinate of the wave of simple deflection. Thence can be determined the

value of $\int \frac{dy}{dx} dz_1 = H$, the horizontal distance

by which the span of the chains would be diminished through the wave of simple deflection, were the effect not compensated by the reflex wave.

The reflex wave must be of a form due to the action of an equally diffused upward pressure on the girder, since the curve of the chains (when the displacement is not considerable) may still be considered to be that due to equal loading; and the equal loading of the chain being conveyed through the suspension rods attached to the plat form, the reaction on the platform must be equally distributed also. For similar reasons to those already adduced, the form of this reflex wave is deducible from the laws of girders simply. magnitude -and, in consequence, the proportion which the chains bear of the entire load-is determined by the equation

$$H + \int \frac{dy}{dx} dz_2 = 0;$$

which gives the conditions on which alone the reflex wave can compensate the wave of deflection.

Having thus determined the simple wave of deflection and its ordinate z_1 , and the reflex wave and its ordinate z₂; the superposition of the one wave on the other gives the actual compound wave of deflection with its ordinates $=z_1+z_2$. The actual strain on the girder at any point will be found by subtracting from the strain accompanying the simple deflection the upward strain due to the reflex wave. In fact, the process of the analysis has regarded as successive two waves which are actually simultaneous; and by thus resolving the compound wave into its component parts, a solution is attained capable of simple and ready application.

If, for instance, it be inquired, what effect will be produced by a weight w placed on the suspended girder at a point distant d feet from the

 $\frac{d}{}$ being expressed by r), it half-span (the ratio s

will be found, on pursuing the method of investigation just indicated, that a distributed pressure will be thrown on the chains

$$= \left(\frac{25}{16} - \frac{15}{2} r^2 + 5r^4\right) \times w;$$

and that the reflex wave due to the reaction of the chains will have its ordinate at the half-span

$$=k \times \frac{5}{6} \frac{s^3}{64} \left(\frac{25}{16} - \frac{15}{2} r^9 + 5r^4 \right) \times w,$$

k being a co-efficient depending on the rigidity of the girder, and s being the span. Combining the reflexiwave with the simple wave of deflection (determined by the usual rules for girders), in which the same co-efficient k will occur, the compound wave is obtained. A correction for the effect of the stretching of the chains which goes to reduce the reflex wave, remains to be made and the result is a very close approximation to the actual state of the suspended girder under the assumed conditions.

The case in which a single concentrated load produces the greatest wave, and causes the greatest strain to be thrown on the girder, is when it is placed at a distance midway between the half- suits:-

an and one of the towers. A load of 256 cwt. placed in this position causes a distributed pressure on the chains equal to 285 cwt. This excess of 29 cwt. is due to the reaction of the further end of the girder, which is supposed to be fixed down to the pier by rollers, as it would otherwise be lifted from its seat by the tension of the chains. Let us compare the wave caused by a weight in this position with the deflection which the same weight would produce if placed in the centre of the girder, the support of the chains being withheld: w being the weight, and k the constant already referred to, $-kw imes rac{s^3}{48}$ is the deflection

which would follow were the girder not suspend ed, and the weight placed in the centre. To facilitate comparison we will therefore express the ordinates of the wave now under examination in terms of kws3

First, the simple wave of deflection will have for its ordinates

at the loaded quarter-span $-0.5625 \times \frac{kws^3}{100}$ -0.6875× kws3 at the half-span

and, at the opposite quarter-span, -0.4375× The reflex will have for its ordinates-

at the loaded quarter span, $+0.4959 imes \frac{kvos^3}{}$ at the half-span $+0.6958 \times \frac{kvos^2}{100}$

at the opposite quarter-span $+0.4959 \times \frac{kvos^2}{}$

The addition of these ordinates will give the following as as the ordinates of the resultant

at the loaded quarter-span (a depression),

 $-0.0666 \times \frac{kws^3}{}$ at the half-span (a rise)+0.0083× kws³ at the oppos.quarter-span (a rise) $+0.0584 imes rac{kws^3}{}$

The greatest deflection is, therefore, -0.0666× -, or 1-15th of the deflection due to the .48 same load placed on the middle of the girder without chains. This result has, however, to be increased by the correction for the stretching of

the chains.

The preceding result cannot be directly compared with those given by Mr. Barlow's experiments, because the reflex wave in his model is affected by the inequality in the height of the towers, which is such as to increase this wave by 1-73rd part when the load is placed one-fourth of span from the high tower, or to reduce it by the same amount when the load is placed one-fourth of span from the low tower. We will, therefore, take the mean of two experiments with the first girder, the load being 56 lbs.; in the first case, placed at quarter-span from the high tower, and, in the second case, at quarter-span from the low tower; and compare the mean so obtained with the deductions of theory.

The girder experimented on was one which without the chains, deflected 1.2 ins. when a load of 42 lbs. was placed on the centre. In this instance, therefore, kws3 1.2 $\frac{1}{48} = \frac{1}{42} \times w = \frac{1}{85}$

load of 56 lbs. at the quarter-span we have, there fore, to multiply the co-efficients of kies3

above determined by the fraction $\frac{56}{36}$, or $\frac{8}{5}$, in

order to obtain the ordinates, in fractions of an inch. The following is a comparison of the re-

Theory.	Experiment.
At loaded quarter-span . D0.107	D0.110
At half-span	D0.010 R. +0.055
D.=Depression, R.=Rise	

With a load of 168 lbs. placed at the quarterspan, taking the mean of two experiments as before, we get the following results :-

Theory. Experiment. inch. inch. At loaded quarter-span. D. —0.320 At half-span R. +0.040 At opposite quarter-span. R. +0.280 -0.320D. -0.065 R. +0.170

In glancing at these figures, an exact correspondence is noticeable between theory and experiment in the amount of depression at the loaded quarter-span. We must not, however, allow ourselves to be deceived by an identity of result, which arises from a compensation of opposite dis-turbing causes. It is evident that the form of wave in the model is different from that of the calculated wave; that the centre is depressed instead of rising; and that, while theory gives 0.60 inch as the sum of extreme depression and extreme rise, experiment reduces this sum to 0.49 in.

One element of this difference is to be sought for in the stretching of the chain in the model, which causes a deflection at the centre of the girder, and elongates and deepens the wave of depression, at the same time that it reduces the wave of elevation. The other element of difference lies in the resistance of the chain itself to a change of position, a resistance very noticeable in a heavily-weighted model with an exaggerated wave, but omitted in our theory; the error involved in the omission being one on the safe side. The operation of this cause in modifying and reducing the total wave (as measured from extreme deflection at one-quarter span to extreme elevation at the opposite quarter-span) may be traced in the successive experiments made by Mr. Barlow, in which the distributed load on the platform was gradually increased to 198 lbs." In this set of experiments, the girder was a plank, 71/4 ins. by 3/4 in., the deflection of which, without the chain, was 1.48 ins, with 10 lbs. A weight of 56 lbs. was placed at quarter-span from the high tower. The displacements according to theory, after correction for the unequal height of the towers, should be as follows:-

100				Inch	
At quarter from	high	tower	 	0.45	96
At half	**		 	+0.14	18
At quarter from At half At three-quarters	8 . 44		 	+0.5	10
****	A SHARE	The state of			-

The actual displacements with no distributed load on the platform were-

1	At quarter	from	high	tower	(11)	Inch.
l	At half		15		** ****	0.02
١	At three-qu	arter	B 11			+0.29

But with a distributed load of 193 lbs. placed on the girder, the displacements caused by the 56 lbs. weight became reduced to the following:-

At quarter from high tower -0.31+0.05 At three-quarters "+0.20

As might have been expected, the more the wave is magnified in the model, by reducing the rigidity of the girder, the more widely the actual displacements differ from those of theory; owing to the resistance of the chain to these exaggerated displacements becoming more appreciable. Thus, for the girder which deflected without the chains 2.375 ins. under a load of 8 lbs., if we take a mean between the results given by 56 lbs. placed at one-fourth from the high tower, and the same weight placed at one fourth from the low tower, we find the calculated and the actual displacements to be respectively as follows:-

	II THE THE PERSON A	Theory.	Experiment.
1	and I maked a loop arm	Inch.	Inch.
At	loaded quarter-span .	1.108	-0.855
	half-span		+0,160
	opposite quarter span		+0.780

The result of the experiments in this instance is very diverse from those of the preceding experiments, especially in the proportionate largeness of the wave of elevation, which in fact seems nalous

On the whole, the comparison of these experi-ments with the results of calculation considerably confirms the accuracy of the theoretical formula as applied to the small actual dipplacements of a zed bridge. It must, however, be rembered, that it has been assumed that the flexibility of the girder is everywhere uniform, and the same for upward as for downward pres -conditions not always found in a plank, such as took the place of a girder in Mr. Barlow's model; and assumed further, that the girder is not continued nor weighted from any distance beyoud the face of the piers.

According to the calculated co-efficients, a concentrated load at quarter-span from one tower will cause a depression of 0.0666, or 1.15th the deflection which the same load without the chains would cause if placed at the centre of the girder. This depression will be accompanied by a rise at the opposite quarter-span of 0.0584. The depression will be increased, and the rise diminished, by the stretching of the chains. The sum, which will not be affected by the stretching of the chains, is 0.1250, or 1/8.

(To be continued.)

Duty of Prize Masters.

THE PRIZE CASES: TO WHOM BELONGS THE CUSTODY OF PRISONERS, THE CIVIL OR MILITARY POWERS ? The law of prize cases is comparatively, novel to American people. They, of course, only occur during time of war; and not being brought to our attention during intervals of peace, the principles of law governing such cases, and even the formula of proceedings are forgotten.

The Justice in the District Court of the United States for the Eastern District of Pennsylvania, in answer to a letter addressed to him by the Military Comandant of the Navy Yard at that station, lays down the law relative to the custody and control of prizes and prisoners, during the time they are in port, and the case is undergoing adjudication. He also applies the principles so laid down to the case of the Amelia, a vessel then in port, possession of which had then been given to the Marshall of the District by the Prize Master. The following is the Justice's answer to the letter.

CADWALADER J. In this case I have received a letter from the commandant of the navy yard at this station, on the subject of the persons on board of this vessel, whom he designates as prisoners and passengers. Though epistolary communications to courts of justice are always inconvenient, and in most cases irregular, an occasional exception must be allowed in transacting the peculiar business of Prize Courts. I have therefore directed that this letter be filed. The commandant asks me for some directions as to his disposal of these persons, I can of course give no directions as to the mode, in which officers of the naval service are to follow its rules concerning the custody and treatment of their prisioners, though in the case of a prize, I might entertain a complaint of irregularities of certain kinds in these respects.

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In prize cases the duty of the Naval Captors who send a vessel into port for adjudication, requires them to send in a sufficient number of the persons taken in her, including in ordinary cases the master and mate, as witnesses for examination. In some cases, actual or nominal, passengers are the most important examinants. Few

inants are too numerous. They are not unfrequently too few; and they have in some cases been persons of too inferior grade to satisfy the requirements of the judicial investigation. neglect of the fulfilment of this duty, not less than improper treatment of captured persons, may be the subject of judicial consideration, affecting questions of prize money, and of costs and semetimes involving questions more serious.

Officers of the naval service have occasionally fallen into the mistake of supposing that when captured vessels are brought into port, and pass into judicial custody, the care and custody of the prisoners, or persons brought in for examination sense, erroneous. The custody, unless they are surrendered under some criminal charge, cognizable by the judicial authority of the district continues to be military, and cannot be interferred with by the Prize Court, except for the purpose of securing the examination of the witnesses. So, after their examination has been completed, their custody, if it continues, is still military and not civil, unless they are charged with a criminal offence, and surrendered under it. Whether persons not thus charged should be detained in military custody after they have been examined, is often a question of great public interest, and may be attended with serious difficulty. But this for the consideration of the prize master, or of the superior naval officer of the station.

On a former occasion I made some remarks, of the basis of a subsequent communication from the Assistant Attorney of the United States for this district to the Attorney General. What I then said I now repeat, as follows:

"When a captured vessel is brought into port the prize master or other naval commander retains the custody of the prisoners until, according to the rules of the naval service, they are discharged, or transferred into close custody, as the public interest may require. Sometimes the prisoners are merely persons detained for examination as witnesses. That they are brought in and are detained for this purpose alone, does not prevent them from continuing in naval custody. Sometimes these persons cannot be discharged with humanity, because they might starve for want of means of present support in a strange place. In other cases, they are so far dangerous from possible hostile relations, that, though perhaps not liable to detention as close prisoners, their premature liberation would be imprudent. The duty devolves upon the Government, but not upon its judicial department, to provide for their support while in port. If the expenses of their comfortable subsistence are not defrayed by the local disbursing agent of the naval department of the Government, and they are consequently discharged, their discharge cannot be prevented by the Prize Court. This court might, if they were thus discharged before the completion of their examinations, direct an allowance to them of one dollar and a-half per day each, as witness money. But this allowance would only be made for the time, seldom exceeding a single day, of their actual detention for examination after their discharge from naval custo-

from responsibility for premature or improper discharge, or for want of proper care of them bear fore and afterwards.

"An incidental subject of less importance," though not unimportant, is that the prize master and and his crew usually incur incidental charges which cannot be repaid by the marshal or other officer of the judicial department until after the condemnation and sale of the captured property. Such expenses ought to be promptly reimbursed as other current local expenses of the naval station to which the prize may be brought. The officer defraying them can, in proper cases for a reimbursement, obtain it after condemnation out becomes judicial. This impression is, in a general of the proceeds. This, if a condemnation ensues. can, on behalf of this officer, be attended to by the Attorney of the United States, who, in proper cases, is always ready to render such incidental services on request. Pilotage, towage and canal charges, are examples of such expenditures as may be thus incurred by persons entrusted with the safe delivery of a prize vessel into the hands of the judicial officers of the Government. Such charges are not, like the wharfage, &c., incurred after delivery into judicial custody, payable by the marshal. I have been told that in some judicial districts of the United States, the marshals are in the habit of paying such prior charges. This may be very proper where they may choose to act for question does not concern the Prize Courts. It is the purpose as disbursing agents of the proper executive department of the Government, and are employed for the purpose. But it is not a part of their official duty as marshals, or a subject within which the substance was written out, and formed any direct cognizance of the Prize Court before condemnation."

The question how far the military duty of protecting a prize in the port of adjudication, continues to rest upon the prize master and his crew. after she is in the marshal's official custody for for adjudication, and passes into judicial custody, civil purpsses, arose in a case in which some of the prize crew had deserted in this port. The case was that of a recaptured vessel. The ones. tion was whether the deserters had forfeited their shares of salvage decreed. If no such duty of protection continued, their shares were not forfeited by such subsequent misconduct. The case was argued on the question whether the duty did not continue so long as they remained in the port of adjudication, and had been assigned to no other incompatible naval duty. The case remains under consideration. A similar question as to prize money might arise in the case of a captured vessel. The distinction between cases which thus concern the vessel, and the case of prisoners, is, that prisoners do not pass, as the vessel does, into the custody of the Prize Court. However therefore the case to which I have referred, of the deserters, may be decided, the case of prisoners is free from doubt. It would be easy to state cases in which their military custody might be required for the safety of the country. The rule must be uniform

The clerk of the court will send a copy of this to the naval commandant. The District Attorney informs me that he has no criminal charge to prefer against any of the prisoners. The prise commissioners has not, as yet, made his report. But he informs me that he has completed his examinations of the witnesses who were brought in the vessel. The libel was filed and allowed yesterday, really contestable cases occur in which the exam- dy, and would not absolve the naval custodian when the vessel passed into the legal custody of the marshal. The business of the court, therefore does not seem to require the longer detention of any of the persons in question. Their discharge or detention rests with the officers of the naval service, according to its rules.

In the case of the Amelia the prize master reported to the Justice that he had given possession of the ship to the marshal of the district, and since giving it to him, had aided him in the custody and safe keeping of the vessel and cargo; and he had allowed the persons sent with him on board of the ship, viz: the captain, his wife, the cook and his wife and daughter, to go ashore for their greater comfort, there being no conveniences for them on board the vessel; and each and all of them remainly willingly subject to the orders of the judge of this court. To this the court responded as follows:

The prize master is mistaken in supposing that the persons mentioned in the above statemer' are subject to the order of the court. On the contrary they are in custody of the naval captors, unless they have been duly discharged. The court cannot interfere to direct their discharge. But if the commissioner of the court and the prize master concur in opinion that there is no reason for their longer detention, the court cannot perceive that their discharge would be censurable. This, however, is a matter for naval, and not for judicial regulation.

The prize master, stating that his duties may require bim to leave Philadelphia, the court add, that so soon as the persons in his custody shall have been discharged, or their custody otherwise regulated by the proper naval authority, the court perceive no necessity for his remaining here longer. But so far as naval duties may be concerned, the prize master will, in this respect, judge for himself what should be his course of conduct.

OFFICE OF THE ILLINOIS CENTRAL R. R. Co., New York, Oct. 29, 1861.

New York, Oct. 29, 1861. 5

HOLDERS of the stock of this Company, as registered upon the books of the company at the close of business on the 18th day of January, 1862, will be entitled to Canceled Bonds Scrip for five dollars upon each share of stock held by them deliverable on or after the 1st day of February next; and parties holding certificates are hereby notified to have the same registered in their own names on or before the said 16th day of January.

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48
THOMAS E. WALKER, Treasurer.

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JOHN V. L. PRUYN,

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Secretary pro tem.

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